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Water resources data for the 1975 water year for New Jersey consist of records of stage, discharge, and water quality of streams; stage, contents, and water quality of lakes and reservoirs; and water quality in wells and springs. This report contains discharge records for 85 gaging stations; tide summaries for 11 stations; stage and contents for 31 lakes and reservoirs; water quality for 25 gaging stations, 87 partial-record flow stations, and 164 wells. Also included are 75 crest-stage partial-record stations and 58 low-flow partial-record stations. Additional water data were collected at various sites, not part of the systematic data collection program, and are published as miscellaneous measurements. These data represent that part of the National Water Data System operated by the U.S. Geological Survey and cooperating State and Federal agencies in New Jersey.

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Water Resources Data
for
New Jersey

Water Year 1975

U.S. DEPARTMENT OF THE INTERIOR
MARCH 3, 1849

U.S. GEOLOGICAL SURVEY WATER-DATA REPORT NJ-75-1

Prepared in cooperation with the State of New Jersey
and with other agencies

PREFACE

This report was prepared by the U.S. Geological Survey in cooperation with the State of New Jersey and with other agencies by personnel of the New Jersey district of the Water Resources Division under the supervision of H. Meisler, District Chief, and J. T. Callahan, Regional Hydrologist, Northeastern Region.

This report is one of a series issued State by State under the general direction of J. S. Cragwall, Jr., Chief Hydrologist, and G. W. Whetstone, Assistant Chief Hydrologist for Scientific Publications and Data Management.

UNITED STATES DEPARTMENT OF THE INTERIOR

THOMAS S. KLEPPE, Secretary

GEOLOGICAL SURVEY

V. E. McKelvey, Director

Prepared in cooperation with

New Jersey Department of Environmental Protection
Water Resources Division
New Jersey Department of Agriculture
Delaware River Basin Commission
Corps of Engineers, U.S. Army
U.S. Environmental Protection Agency
North Jersey District Water Supply Commission
Passaic Valley Water Commission
County of Bergen
County of Camden

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1976

CONTENTS

	Page
Preface	III
List of gaging stations, in downstream order, for which records are published	VII
List of water-quality stations, in downstream order, for which records are published	X
Introduction	1
Cooperation	2
Definition of terms	3
Special networks and programs	14
Downstream order and station number	15
Numbering system for wells and miscellaneous sites	15
Explanation of surface-water records	17
Collection and computation of data	17
Accuracy of data	23
Publications	23
Other data available	24
Records of discharge collected by agencies other than the Geological Survey	25
Explanation of water-quality records	26
Collection and examination of data	26
Solutes	28
Temperature	29
Sediment	29
Publications	30
Surface-Water conditions	31
Water-Quality conditions	35
Selected references	37
Section 1. Surface-water records	41
Gaging station records	42
Discharge at partial-record stations	151
Low-flow partial-record stations	151
Crest-stage partial-record stations	157
Discharge measurements at miscellaneous sites	165
Tidal gaging stations	171
Tidal crest-stage stations	179
Section 2. Water-quality records	181
Surface-water quality station records	182
Ground-water quality station records	447
Index	467

ILLUSTRATIONS

		Page
Figure 1.	Well location system	16
2.	Daily streamflow at key gaging stations	32
3.	Monthly streamflow at key gaging stations	33
4.	Annual mean discharge at key gaging stations	34
5.	Water-quality conditions	36
6.	Map showing location of gaging stations	inside back cover
7.	Map showing location of partial-record stations	inside back cover
8.	Map showing location of surface-water quality stations	inside back cover
9.	Map showing location of ground-water quality stations	inside back cover

TABLES

Table 1.	Factors for conversion of chemical constituents in milligrams or micrograms per litre to milliequivalents per litre	9
2.	Factors for conversion of sediment concentration in milligrams per litre to parts per million	9
3.	Degrees Celsius (°C) to degrees Fahrenheit (°F)	27
4.	Water-supply paper numbers and parts, water years 1945-70	30
5.	Factors for converting English units to International System (SI) units	40

GAGING STATIONS, IN DOWNSTREAM ORDER, FOR WHICH RECORDS ARE PUBLISHED

Page

HUDSON RIVER BASIN

Rondout Creek:

- Wallkill River near Unionville, N.Y. 42

HACKENSACK RIVER BASIN

- Hackensack River at West Nyack, N.Y. 43
- Hackensack River at Rivervale 44
  - Pascack Brook at Westwood 45
- Hackensack River at New Milford 46
- Reservoirs in Hackensack River basin 47
  - Diversions in Hackensack River basin 48

PASSAIC RIVER BASIN

- Passaic River near Bernardsville 49
- Passaic River near Millington 50
- Passaic River near Chatham 51
  - Rockaway River above reservoir, at Boonton 52
  - Rockaway River below reservoir, at Boonton 53
    - Whippany River at Morristown 54
  - Pequannock River (head of Pompton River) at
    - Macopin intake dam 55
    - Wanaque River at Awosting 56
    - Wanaque River at Monks 57
      - Ringwood Creek near Wanaque 58
      - West Brook near Wanaque 59
    - Wanaque River at Wanaque 60
    - Ramapo River:
      - Mahwah River near Suffern, N.Y. 61
    - Ramapo River near Mahwah 62
    - Ramapo River at Pompton Lakes 63
  - Pompton River at Pompton Plains 64
- Passaic River at Little Falls 65
  - Saddle River at Lodi 66
- Reservoirs in Passaic River basin 67
  - Diversions in Passaic River basin 70

ELIZABETH RIVER BASIN

- Elizabeth River at Ursino Lake, Elizabeth 71

RAHWAY RIVER BASIN

- Rahway River near Springfield 72
- Rahway River at Rahway 73
  - Robinsions Branch Rahway River at Rahway 74

RARITAN RIVER BASIN

- South Branch Raritan River near High Bridge 75
  - Spruce Run at Clinton 76
- South Branch Raritan River at Stanton 77
  - Neshanic River at Reaville 78
  - North Branch Raritan River near Far Hills 79
    - Lamington (Black) River near Pottersville 80
      - Upper Cold Brook near Pottersville 81
  - North Branch Raritan River near Raritan 82

Page

RARITAN RIVER BASIN--Continued

Raritan River at Manville.................................. 83
  Millstone River at Plainsboro.............................. 84
    Stony Brook:
    Stony Brook at Princeton................................. 85
  Millstone River at Blackwells Mills........................ 86
Raritan River below Calco Dam at Bound Brook................. 87
  Bound Brook:
    Green Brook at Plainfield................................ 88
      Stony Brook at Watchung................................ 89
  Bound Brook at Middlesex................................... 90
  Lawrence Brook at Farrington Dam........................... 91
  Matchaponix Brook (head of South River):
    Manalapan Brook at Spotswood............................. 92
  South River at Old Bridge.................................. 93
Reservoirs in Raritan River basin............................ 94
  Diversions in Raritan River basin.......................... 95

NAVESINK RIVER BASIN

Swimming River (head of Navesink River) near Red Bank........ 96

SHARK RIVER BASIN

Shark River near Neptune City................................ 97
  Jumping Brook near Neptune City............................ 98

MANASQUAN RIVER BASIN

Manasquan River at Squankum................................... 99

METEDECONK RIVER BASIN

  North Branch Metedeconk River near Lakewood................ 100
  South Branch Metedeconk River at Lakewood.................. 101

TOMS RIVER BASIN

Toms River near Toms River................................... 102

OYSTER CREEK BASIN

Oyster Creek near Brookville................................. 103

WESTECUNK CREEK BASIN

Westecunk Creek at Stafford Forge............................ 104

MULLICA RIVER BASIN

Mullica River near Batsto.................................... 105
  Batsto River at Batsto..................................... 106
  Batsto River at Pleasant Mills............................. 172
  Wading River:
    West Branch Wading River near Jenkins.................... 107
    Oswego River at Harrisville.............................. 108

ABSECON CREEK BASIN

Absecon Creek at Absecon..................................... 109

GREAT EGG HARBOR RIVER BASIN

  Great Egg Harbor River tributary at Sicklerville........... 110
  Fourmile Branch at New Brooklyn............................ 111
Great Egg Harbor River near Blue Anchor...................... 112
Great Egg Harbor River at Folsom............................. 113

TUCKAHOE RIVER BASIN

Tuckahoe River at Head of River.............................. 114

MAURICE RIVER BASIN

Maurice River at Norma....................................... 115

Page

DELAWARE RIVER BASIN

Delaware River at Port Jervis, N.Y. 116
  Neversink River at Godeffroy, N.Y. 117
Delaware River at Montague 118
  Flat Brook near Flatbrookville 119
Delaware River below Tocks Island damsite, near Delaware Water Gap, Pa 120
  Paulins Kill at Blairstown 121
    Yards Creek near Blairstown 122
  Pequest River at Pequest 123
Delaware River at Belvidere 124
Delaware River at Easton, Pa 125
  Lehigh River at Bethlehem, Pa 126
  Musconetcong River at outlet of Lake Hopatcong 127
  Musconetcong River near Bloomsbury 128
  Delaware and Raritan Canal at Kingston 129
Delaware River at Trenton 130
  Assunpink Creek near Clarksville 131
  Assunpink Creek at Trenton 132
Delaware River at Marine Terminal, Trenton 174
  Crosswicks Creek at Extonville 133
Delaware River at Burlington 175
  Rancocas Creek:
  South Branch Rancocas Creek (head of Rancocas Creek at Vincentown 134
    North Branch Rancocas Creek:
      Greenwood Branch:
        McDonalds Branch (head of Bisphams Mill Creek) in Lebanon State Forest 135
    North Branch Rancocas Creek at Pemberton 136
Delaware River at Palmyra 176
  South Branch Pennsauken Creek (head of Pennsauken Creek) at Cherry Hill 137
  Cooper River at Haddonfield 138
  Schuylkill River at Philadelphia, Pa 139
  Mantua Creek at Pitman 140
  Delaware River at Chester, Pa 177
  Raccoon Creek near Swedesboro 141
Delaware River at Delaware Memorial Bridge, Wilmington, Del. . 178
  Salem River at Woodstown 142
Reservoirs in Delaware River basin 143
  Diversions and withdrawals in Delaware River basin 149

WATER-QUALITY STATIONS, IN DOWNSTREAM ORDER, FOR WHICH RECORDS ARE PUBLISHED

[Letters after station name designate type of data: (c) chemical, (t) water temperature, (s) sediment, (b) biological]

Page

SURFACE WATER RECORDS

HUDSON RIVER BASIN

Wallkill River near Unionville, N.Y. (c).................... 182

HACKENSACK RIVER BASIN

Hackensack River at Rivervale (cs).................... 183
Hackensack River at New Milford (c).................... 185

PASSAIC RIVER BASIN

Passaic River near Millington (cs).................... 186
Passaic River near Chatham (c).................... 188
  Rockaway River above Reservoir at Boonton (c).................... 189
  Rockaway River at Pine Brook (c).................... 190
    Whippany River at Morristown (cs).................... 191
    Whippany River near Pine Brook (c).................... 193
Passaic River at Two Bridges (c).................... 194
  Pequannock River at Macopin intake dam (c).................... 195
    Wanaque River at Wanaque (ct).................... 196
  Ramapo River near Mahwah (c).................... 198
  Pompton River at Pompton Plains (s).................... 199
  Pompton River at Two Bridges (c).................... 200
Passaic River at Rt. 46 at Singac (c).................... 201
Passaic River at Little Falls (ct).................... 204
Passaic River at Rt. 46 at Elmwood Park (c).................... 206
  Saddle River at Lodi (c).................... 209

ELIZABETH RIVER BASIN

Elizabeth River at Elizabeth (cs).................... 210

RARITAN RIVER BASIN

South Branch Raritan River near High Bridge (ct).................... 212
  Spruce Run at Clinton (ct).................... 216
South Branch Raritan River at Stanton (ct).................... 218
  North Branch Raritan River near Far Hills (c).................... 222
  North Branch Raritan River near Raritan (c).................... 223
Raritan River near Manville (c).................... 224
  Millstone River at Plainsboro (s).................... 225
    Stony Brook at Princeton (c).................... 226
      Royce Brook:
        Royce Brook tributary at Frankfort (s).................... 227
        Royce Brook tributary near Belle Mead (s).................... 228
  Millstone River near Manville (c).................... 229
Raritan River near South Bound Brook (ctsb).................... 230
  South River:
    Manalapan Brook at Spotswood (c).................... 245

MANASQUAN RIVER BASIN

Manasquan River at Squankum (c).................... 247

TOMS RIVER BASIN

Toms River near Toms River (ctsb).................... 248

OYSTER CREEK BASIN

Oyster Creek near Brookville (ct).................... 259

WATER-QUALITY STATIONS IN DOWNSTREAM ORDER

Page

GREAT EGG HARBOR RIVER BASIN

Great Egg Harbor River at Berlin (c)........................... 265
Great Egg Harbor River near Sicklerville (csb)................ 266
Great Egg Harbor River tributary at Sicklerville (csb)....... 269
Great Egg Harbor River at Winslow Crossing (c)................ 274
West Outlet New Brooklyn Lake at Winslow Crossing (cb)....... 275
East Storm Drain-Winslow Crossing near Sicklerville (c).... 278
Great Egg Harbor River tributary No. 2 at Winslow
Crossing (csb).. 279
Fourmile Branch at Winslow Crossing (cb).................. 281
Fourmile Branch at New Brooklyn (csb)..................... 284
Great Egg Harbor River near Blue Anchor (csb)................ 289
Squankum Branch at Malaga Road near Williamstown (c)........ 293
Great Egg Harbor River at Folsom (cst)........................ 294
Hospitality Branch at Berryland (c)........................ 299
Hospitality Branch at Penny Pot (c)........................ 300
Great Egg Harbor River at Weymouth (c)........................ 301
Deep Run near Weymouth (c)................................. 302
Great Egg Harbor River at Mays Landing (c)................... 303
Babcock Creek near Mays Landing (c)........................ 304

TUCKAHOE RIVER BASIN

Tuckahoe River near Estell Manor (c)........................... 305
Tuckahoe River at Head of River (c)............................ 306

MAURICE RIVER BASIN

Scotland Run near Franklinville (c)........................ 307
Maurice River at Norma (c)...................................... 308
Muddy Run near Norma (c).................................... 310
Maurice River near Millville (c)................................ 311
Maurice River at Sharp Street at Millville (c)................ 312
Manantico Creek near Port Elizabeth (c).................... 313
Manumuskin River near Manumuskin (c)....................... 314

DELAWARE BAY BASIN

Delaware Bay at Ship John Shoal Lighthouse (ct).............. 315

COHANSEY RIVER BASIN

Cohansey River at Seeley (c)................................... 319
Cohansey River at Outlet of Sunset Lake at Bridgeton (c)..... 320
Cohansey River at Bridgeton (c)................................ 321

DELAWARE RIVER BASIN

Flatbrook near Flatbrookville (cs)......................... 322
Delaware River near East Stroudsburg, Pa. (ct)................ 324
Delaware River at Dunnfield (cts).............................. 331
Pequest River at Pequest (c)............................... 335
Delaware River near Martins Creek, Pa. (c).................... 336
Delaware River at Easton, Pa. (ct)............................. 338
Musconetcong River near Bloomsbury (c)..................... 345
Delaware River at Trenton (ctsb)............................... 346
Assunpink Creek at Bakersville (c)......................... 365
Shipetauken Creek at Bakersville (c)................... 366
Assunpink Creek at Trenton (cs)............................ 367
Delaware River at Marine Terminal, Trenton (ct)............... 369
Crosswicks Creek at Extonville (c)......................... 373

DELAWARE RIVER BASIN--Continued Page

Delaware River at Bristol, Pa.-Burlington, N.J. Bridge (ct).. 374

Rancocas Creek:

South Branch Rancocas Creek at Retreat (c)................. 381
South Branch Rancocas Creek at Vincentown (c).............. 382
Southwest Branch Rancocas Creek at Eayrestown (c)........ 383
South Branch Rancocas Creek at Hainesport (c).............. 384
North Branch Rancocas Creek at Browns Mills (c).......... 385

Greenwood Branch:

McDonalds Branch in Lebanon State Forest (cts)....... 386
Greenwood Branch at New Lisbon (c)...................... 392
North Branch Rancocas Creek at Pemberton (c)............. 393
North Branch Rancocas Creek at Ewanville (c)............. 394
North Branch Rancocas Creek at Pine Street at Mount Holly (c).. 395
Rancocas Creek at Centerton (c)............................ 396
Rancocas Creek at Willingboro (c).......................... 397
Delaware River at Torresdale Intake, at Philadelphia, Pa. (ct).................................. 398
Cooper River at Haddonfield (c)............................ 405
Delaware River at Benjamin Franklin Bridge, at Philadelphia, Pa. (ct).................................. 406

Big Timber Creek:

North Branch Big Timber Creek at Berlin Road at Clementon (c).. 413
Almonesson Creek at Runnemede (c)......................... 414
Delaware River at Fort Mifflin (t).......................... 415
Mantua Creek at Pitman (c).................................... 417
Monongahela Brook at Wenonah (c)......................... 418
Mantua Creek at Mantua (c).................................... 419
Delaware River at Chester, Pa. (ct)......................... 420
Raccoon Creek near Mullica Hill (c)......................... 427
Raccoon Creek near Swedesboro (c).......................... 428
Delaware River at Marcus Hook (c).......................... 429
Oldmans Creek at Porches Mill (c).......................... 430
Delaware River at Delaware Memorial Bridge, near Wilmington, Del. (ct).................................. 431
Salem River at Woodstown (c)................................. 438
Salem River at Courses Landing (c).......................... 439
Delaware River at Reedy Island Jetty, Del. (ct)............. 440
Alloway Creek at Inlet of Alloway Lake near Alloway (c).... 447

GROUND WATER RECORDS

Atlantic County.. 448
Burlington County.. 449
Camden County.. 450
Cape May County... 452
Cumberland County.. 453
Gloucester County... 456
Middlesex County.. 458
Monmouth County.. 459
Ocean County... 461
Salem County... 464

WATER RESOURCES DATA FOR NEW JERSEY, 1975

Section 1. Surface-Water Records
Section 2. Water-Quality Records

INTRODUCTION

Water resources data for the 1975 water year for New Jersey consist of records of stage, discharge, and water quality of streams; stage, contents, and water quality of lakes and reservoirs; and water quality of wells. This report contains discharge records for 85 gaging stations; tide summaries for 11 stations; stage and contents for 31 lakes and reservoirs; water quality for 25 gaging stations, 87 partial-record flow stations, and 164 wells. Also included are data for 75 crest-stage partial-record stations and 58 low-flow partial-record stations. Additional water data were collected at various sites, not part of the systematic data collection program, and are published as miscellaneous measurements. These data represent that part of the National Water Data System operated by the U. S. Geological Survey and cooperating State and Federal agencies in New Jersey.

Records of discharge (or stage) of streams, and contents (or stage) of lakes and reservoirs were first published in a series of U. S. Geological Survey water-supply papers entitled, "Surface Water Supply of the United States". Through water year 1960, these water-supply papers were in an annual series and then in a 5-year series for 1961-65 and 1966-70. Records of chemical quality, water temperatures, and suspended sediment were published from 1941 to 1970 in an annual series of water-supply papers entitled, "Quality of Surface Waters of the United States". Records of ground-water levels were published from 1935 to 1974 in a series of water-supply papers entitled, "Ground-Water Levels in the United States".

Beginning with the 1961 water year and continuing through water year 1974, streamflow data have been released by the Geological Survey in annual reports on a State-boundary basis. Water-quality records beginning with the 1964 water year, and ground-water data since the 1971 water year have been similarly released either in separate reports or in conjunction with streamflow records. These reports provided rapid release of preliminary water data shortly after the end of the water year. The final data were then released in the water-supply paper series mentioned above. Beginning with the 1975 water year, water data will be released on a State-boundary basis in final form and will not be republished in the water-supply paper series. The 1975 and subsequent water year reports will be in a series which will carry an identification number consisting of the two-letter State abbreviation, the last two digits of the water year, and the volume number. For example, this report is identified as "U. S. Geological Survey Water-Data Report NJ-75-1". These reports are for sale to the public for a nominal fee from the National Technical Information Service, U. S. Department of Commerce, Springfield, Virginia, 22151. Limited copies of this report may be obtained from the District Chief, WRD (for address see Page IV).

COOPERATION

This report was prepared by the U.S. Geological Survey under cooperative agreement with the following organizations:

New Jersey Department of Environmental Protection,
David J. Bardin, commissioner.
Division of Water Resources, Rocco Ricci,
acting director.
Division of Fish, Game and Shell Fisheries,
Russell A. Cookingham, director.
New Jersey Department of Agriculture, Philip Alampi,
secretary.
Division of Rural Resources, Richard D. Chumney,
director.
Delaware River Basin Commission, James F. Wright,
executive director.
North Jersey District Water Supply Commission,
D. Noll, chief engineer.
Passaic Valley Water Commission, W. R. Inhoffer,
general superintendent and chief engineer.
County of Bergen, V. J. Nunno, director of
Public Works and E. R. Ranuska, county engineer.
Camden County, Joseph T. Patermo, Director of
Camden County Planning Board.

Assistance in the form of funds was given by the Corps of Engineers, U. S. Army, in collecting records for 36 stations, and for the collection of sediment records at two stream-sampling stations; and by the U. S. Environmental Protection Agency for the collection of chemical analyses at four stream-sampling stations. In addition, several stations were operated fully or partially from funds appropriated directly to the Geological Survey. Assistance was also furnished by the National Weather Service.

Basic water-quality data collected at many sampling stations on the main stem of the Delaware River and estuary--an interstate stream--included in this report were collected in cooperation with the following additional agencies:

City of Philadelphia Water Department, Carmen Guarino, commissioner.
Pennsylvania Department of Environmental Resources, Maurice K. Goddard, secretary.
Delaware Geological Survey, R. R. Jordan, State geologist.
Delaware River Master, Francis P. Schaefer.

The following organizations aided in collecting records:

Municipalities of Atlantic City, Jersey City, Newark and New Brunswick; American Cyanamid Co.; E. I. DuPont de Nemours & Co.; Elizabethtown Water Co.; Hackensack Water Co.; Johns-Manville Products Corp.; Monmouth Consolidated Water Co.; and Morris Canal & Banking Co.

Organizations that supplied data are acknowledged in station descriptions.

DEFINITION OF TERMS

Terms related to streamflow, water-quality and other hydrologic data, as used in this report, are defined as follows; also see Factors for Converting English Units to International System (SI) Units on Page 40 :

Acre-foot (Ac-Ft, acre-ft) is the quantity of water required to cover 1 acre to a depth of 1 foot and is equivalent to 43,560 cubic feet or 325,851 gallons.

Aquifer is a geologic formation, group of formations, or part of a formation that contains sufficient saturated permeable material to yield significant quantities of water to wells and springs.

Bacteria are microscopic unicellular organisms, typically spherical, rod-like, or spiral and threadlike in shape, often clumped into colonies. Some bacteria cause disease, others perform an essential role in nature in the recycling of materials; for example, by decomposing organic matter into a form available for reuse by plants.

Total coliform bacteria are a particular group of bacteria that are used as indicators of possible sewage pollution. They are characterized as aerobic or facultative anaerobic, gram-negative, nonspore-forming, rod-shaped bacteria which ferment lactose with gas formation within 48 hours at 35°C. In the laboratory these bacteria are defined as all the organisms which produce colonies with a golden-green metallic sheen within 24 hours when incubated at 35°C ± 1.0°C on M-Endo medium (nutrient medium for bacterial growth). Their concentrations are expressed as number of colonies per 100 ml of sample.

Fecal coliform bacteria are bacteria that are present in the intestine or feces of warmblooded animals. They are often used as indicators of the sanitary quality of the water. In the laboratory they are defined as all organisms which produce blue colonies within 24 hours when incubated at 44.5°C ± 0.2°C on M-FC medium (nutrient medium for bacterial growth). Their concentrations are expressed as number of colonies per 100 ml of sample.

Fecal streptococcal bacteria are bacteria found also in the intestine of warmblooded animals. Their presence in water is considered to verify fecal pollution. They are characterized as gram-positive, cocci bacteria which are capable of growth in brain-heart infusion broth. In the laboratory they are defined as all the organisms which produce red or pink colonies within 48 hours at 35°C ± 1.0°C on M-enterrococcus medium (nutrient medium for bacterial growth). Their concentrations are expressed as number of colonies per 100 ml of sample.

Bedload is the sediment which moves along in essentially continuous contact with the streambed by rolling, sliding, and making brief excursions into the flow a few diameters above the bed.

Bed material is the shifting portion of fragmented alluvial material of which the streambed is composed.

Biochemical oxygen demand (BOD) is a measure of the quanity of dissolved oxygen, in milligrams per litre, used for the decomposition of organic matter by microorganisms, such as bacteria.

Biomass is the amount of living matter present at any given time, expressed as the weight per unit area or volume of habitat.

Ash weight is the weight or amount of residue present after the residue from the dry weight determination has been ashed in a muffle furnace at a temperature of 500°C for 1 hour. The ash weight values of zooplankton and phytoplankton are expressed in g/m^3 (grams per cubic metre), and periphyton and benthic organisms in g/m^2 (grams per square metre).

Dry weight refers to the weight of residue present after drying in an oven at 60°C for zooplankton and 105°C for periphyton, until the weight remains unchanged. This weight represents the total organic matter, ash and sediment, in the sample. Dry weight values are expressed in the same units as ash weight.

Organic weight or volatile weight of the living substance is the difference between the dry weight and the ash weight, and represents the actual weight of the living matter. The organic weight is expressed in the same units as for ash and dry weights.

Wet weight is the weight of living matter plus contained water.

Cfs-day is the volume of water represented by a flow of 1 cubic foot per second for 24 hours. It is equivalent to 86,400 cubic feet, 1.9835 acre-feet, or 646,317 gallons, and represents a runoff of 0.0372 inch from 1 square mile.

Chemical oxygen demand (COD) indicates the quantity of oxidizable compounds in water and varies with water composition(s), temperature, period of contact, and other factors.

Contents is the volume of water in a reservoir or lake. Unless otherwise indicated, volume is computed on the basis of a level pool and does not include bank storage.

Continuing record station is a specified site which meets one or all conditions listed:

1. When chemical samples are collected daily or monthly for 10 or more months during the water year.
2. When water temperature records include observations taken once or more times daily.
3. When sediment discharge records include those periods for which sediment loads are computed and are considered to be representative of the runoff for the water year.

Control designates a feature downstream from the gage that determines the stage-discharge relation at the gage. This feature may be a natural constriction of the channel, an artificial structure, or a uniform cross section over a long reach of the channel.

Cubic feet per second per square mile (CFSM) is the average number of cubic feet of water flowing per second from each square mile of area drained, assuming that the runoff is distributed uniformly in time and area.

Cubic foot per second (cfs) is the rate of discharge representing a volume of 1 cubic foot passing a given point during 1 second, and is equivalent to 7.48 gallons per second or 448.8 gallons per minute.

Discharge is the volume of water (or more broadly, total fluids), that passes a given point within a given period of time.

Mean discharge is the arithmetic mean of individual daily mean discharges during a specific period.

Instantaneous discharge is the discharge at a particular instant of time.

Dissolved refers to the amount of a substance present in true chemical solution. In practice, however, the term includes all forms of the substance that will pass through a 0.45-micrometre membrane filter, and thus may include some very small (colloidal) suspended particles. Analyses are performed on filtered samples.

Drainage area of a stream at a specified location is that area, measured in a horizontal plane, enclosed by a topographic divide from which direct surface runoff from precipitation normally drains by gravity into the stream above the specified point. Figures of drainage area given herein include all closed basins, or noncontributing areas, within the area unless otherwise noted.

Drainage basin is a part of the surface of the earth that is occupied by a drainage system, which consists of a surface stream or body of impounded surface water together with all tributary surface stream and bodies of impounded surface water.

Gage height (G.H.) is the water-surface elevation referred to some arbitrary gage datum. Gage height is often used interchangeably with the more general term "stage," although gage height is more appropriate when used with a reading on a gage.

Gaging station is a particular site on a stream, canal, lake, or reservoir where systematic observations of gage height or discharge are obtained. When used in connection with a discharge record, the term is applied only to those gaging stations where a continuous record of discharge is obtained.

Hardness of water is a physical-chemical characteristic that is commonly recognized by the increased quantity of soap required to produce lather. It is attributable to the presence of alkaline earths (principally calcium and magnesium) and is expressed as equivalent calcium carbonate ($CaCO_3$).

High tide is the maximum height reached by each rising tide.

Low tide is the minimum height reached by each falling tied.

Mean high or low tide is the average of all high or low tides, respectively, over a specified period.

Methylene blue active substance (MBAS) is a measure of apparent detergents. This determination depends on the formation of a blue color when methylene blue dye reacts with synthetic detergent compounds.

Micrograms per litre (UG/L, µg/l) is a unit expressing the concentration of chemical constituents in solution as weight (micrograms) of solute per unit volume (litre) of water. One thousand micrograms per litre is equivalent to one milligram per litre.

Milligrams per litre (MG/L, mg/l) is a unit for expressing the concentration of chemical constituents in solution. Milligrams per litre represents the weight of solute per unit volume of water. Milligrams or micrograms per litre may be converted to milliequivalents (one thousandth of a gram-equivalent weight of a constituent) per litre by multiplying by the factors in table 1, p. 9. Concentration of suspended sediment also is expressed in mg/l, and is based on the weight of sediment per litre of water-sediment mixture. Sediment concentrations may be converted to parts per million by using the factors in table 2, p. 9.

Partial-record station is a particular site where limited streamflow data are collected systematically over a period of years for use in hydrologic analyses.

Particle size is the diameter, in millimetres (mm), of suspended sediment or bed material determined either by seive or sedimentation methods. Sedimentation methods (pipet, bottom-withdrawal tube, visual-accumulation tube) determine fall diameter of particles in either distilled water (chemically dispersed) or in native water (the river water at the time and point of sampling).

Particle-size classification, used in this report agrees with recommendations made by the American Geophysical Union Subcommittee on Sediment Terminology. The classification is as follows:

Classification	Size (mm)	Method of analysis
Clay..........	0.00024 - 0.004	Sedimentation.
Silt..........	.004 - .062	Sedimentation.
Sand..........	.062 - 2.0	Sedimentation or sieve.
Gravel........	2.0 - 64.0	Sieve.

The particle-size distributions given in this report are not necessarily representative of all particles in transport in the stream. Most of the organic material is removed and the sample is subjected to mechanical and chemical dispersion before analysis in distilled water. Chemical dispersion is not used for native-water analysis.

Periphyton is the assemblage of microorganisms attached to and growing upon solid surfaces. While primarily consisting of algae, they also include bacteria, fungi, protozoa, rotifers, and other small organisms. Periphyton is a useful indicator of water quality.

Pesticides are chemical compounds used to control the growth of undesirable plants and animals. Major categories of pesticides includes insecticides, miticides, fungicides, herbicides, and rodenticides. Since the first application of DDT as an insecticide in the early 1930's, there have been almost 60,000 pesticide formulations registered, each containing at least one of the approximately 800 different basic pesticide compounds. The United States annually produces about 1 billion pounds of these compounds. Although efforts are being made to substitute many of the chlorinated hydrocarbon pesticides with more specific, fast-acting, and easily degradable compounds, chlorinated hydrocarbon pesticides are still commonly used in many areas of the country.

Table 1.--Factors for conversion of chemical constituents in milligrams or micrograms per litre to milliequivalents per litre

Ion	Multiply by	Ion	Multiply by
Aluminum (Al^{+3})*...	0.11119	Iodide (I^{-1}).....	0.00788
Ammonia as NH_4^{+1} ...	.05544	Iron (Fe^{+3})*.....	.05372
Barium (Ba^{+2}).......	.01456	Lead (Pb^{+2})*.....	.00965
Bicarbonate (HCO_3^{-1})	.01639	Lithium (Li^{+1})*..	.14411
Bromide (Br^{-1})......	.01251	Magnesium (Mg^{+2}).	.08226
Calcium (Ca^{+2})......	.04990	Manganese (Mn^{+2})*	.03640
Carbonate (CO_3^{-2})...	.03333	Nickel (Ni^{+2})*...	.03406
Chloride (Cl^{-1}).....	.02821	Nitrate (NO_3^{-1})...	.01613
Chromium (Cr^{+6})*...	.11539	Nitrite (NO_2^{-1})...	.02174
Cobalt (Co^{+2})*......	.03394	Phosphate (PO_4^{-3}).	.03159
Copper (Cu^{+2})*......	.03148	Potassium (K^{+1})..	.02557
Cyanide (CN^{-1})......	.03844	Sodium (Na^{+1})....	.04350
Fluoride (F^{-1})......	.05264	Strontium (Sr^{+2})*	.02283
Hydrogen (H^{+1})......	.99209	Sulfate (SO_4^{-2})...	.02082
Hydroxide (OH^{-1})...	.05880	Zinc (Zn^{+2})*.....	.03060

*Constituent reported in micrograms per litre; multiply by factor and divide results by 1,000.

Table 2.--Factors for conversion of sediment concentration in milligrams per litre to parts per million*
(All values calculated to three significant figures)

Range of concentration in 1000 mg/l	Divide by	Range of concentration in 1000 mg/l	Divide by	Range of concentration in 1000 mg/l	Divide by	Range of concentration in 1000 mg/l	Divide by
0 - 8	1.00	201-217	1.13	411-424	1.26	619-634	1.39
8.05- 24	1.01	218-232	1.14	427-440	1.27	636-650	1.40
24.2 - 40	1.02	234-248	1.15	443-457	1.28	652-666	1.41
40.5 - 56	1.03	250-264	1.16	460-473	1.29	668-682	1.42
56.5 - 72	1.04	266-280	1.17	476-489	1.30	684-698	1.43
72.5 - 88	1.05	282-297	1.18	492-506	1.31	700-715	1.44
88.5 -104	1.06	299-313	1.19	508-522	1.32	717-730	1.45
105 -120	1.07	315-329	1.20	524-538	1.33	732-747	1.46
121 -136	1.08	331-345	1.21	540-554	1.34	749-762	1.47
137 -152	1.09	347-361	1.22	556-570	1.35	765-780	1.48
153 -169	1.10	363-378	1.23	572-585	1.36	782-796	1.49
170 -185	1.11	380-393	1.24	587-602	1.37	798-810	1.50
186 -200	1.12	395-409	1.25	604-617	1.38		

*Based on water density of 1.000 g/ml and a specific gravity of sediment of 2.65.

Picocurie (CP, pCi) is one trillionth (1×10^{-12}) of the amount of radioactivity represented by a curie (Ci). A curie is the amount of radioactivity that yields 3.7×10^{10} radioactive disintegrations per second. A picocurie yields 2.22 dpm (disintegrations per minute).

Plankton is the community of suspended, floating, or weakly swimming organisms that live in the open water of lakes and rivers.

Phytoplankton is the plant part of the plankton. They are usually microscopic and their movement is subject to the water currents. Phytoplankton growth is dependent upon solar radiation and nutrient substances. Because they are able to incorporate as well as release materials to the surrounding water, the phytoplankton have a profound effect upon the quality of the water. They are the primary food producers in the aquatic environment, and are commonly known as algae.

Blue-green algae are a group of phytoplankton organisms having a blue pigment, in addition to the green pigment called chlorophyll. Blue-green algae often cause nuisance conditions in water.

Diatoms are the unicellular or colonial algae having a siliceous shell. Their concentrations are expressed as number of cells per millilitre of sample.

Green algae have chlorophyll pigments similar in color to those of higher green plants. Some forms produce algal mats or floating "moss" in lakes. Their concentrations are expressed as number of cells per millilitre of sample.

Zooplankton is the animal part of the plankton. Zooplankton are capable of extensive movements within the water column, and are often large enough to be seen with the unaided eye. Zooplankton are secondary consumers feeding upon bacteria, phytoplankton, and detritus. Because they are the grazers in the aquatic environment, the zooplankton are a vital part of the aquatic food web. The zooplankton community is dominated by small crustaceans and rotifers.

Radioisotopes are isotope forms of an element that exhibit radioactivity. Isotopes are varieties of a chemical element that differ in atomic weight, but are very nearly alike in chemical properties. The difference arises because the atoms of the isotopic forms of an element differ in the number of neutrons in the necleus. For example: Ordinary chlorine is a mixture of isotopes having atomic weights 35 and 37, with the natural mixture having atomic weight about 35.453. Many of the elements similarly exist as mixtures of isotopes, and a great many new isotopes have been produced in the operation of nuclear devices such as the cyclotron (Rose, 1966). There are 275 isotopes of the 81 stable elements in addition to over 800 radioactive isotopes.

Radioisotopes that are determined in this report are natural uranium in µg/l (micrograms per litre), radium as radium-226 in PC/L, (pCi/l, picocuries per litre), gross beta in PC/L, and gross alpha radiation as micrograms of uranium equivalent per litre (µg/l). Gross alpha and beta radioactivity associated with the fine grained (silt and clay sized) sediments in the samples are also determined.

River mile, as used herein, is the distance above the mouth of Delaware Bay, measured along the center line of the navigation channel or the main stem of the Delaware River. River mile data were furnished by the Delaware River Basin Commission.

Runoff in inches (IN.) shows the depth to which the drainage area would be covered if all the runoff for a given time period were uniformly distributed on it.

Sediment is solid material that originates mostly from disintegrated rocks and is transformed by, suspended in, or deposited from water; it includes chemical and biochemical precipitates and decomposed organic material such as humus. The quantity, characteristics, and cause of the occurrence of sediment in streams are influenced by environmental factors. Some major factors are degree of slope, length of slope, soil characteristics, land usage, and quantity and intensity of precipitation.

Suspended sediment is the sediment that at any given time is maintained in suspension by the upward components of turbulent currents or that exists in suspension as a colloid.

Suspended-sediment discharge (tons) is the rate at which dry weight of sediment passes a section of a stream or is the quantity of sediment, as measured by dry weight, or by volume, that is discharged in a given time. It is computed by multiplying discharge times mg/l times 0.0027.

Total sediment discharge (tons) or total sediment load is the sum of the suspended-sediment discharge and the bedload discharge. It is the total quantity of sediment, as measured by dry weight or volume, that is discharged during a given time.

Suspended-sediment concentration is the velocity-weighted concentration of suspended sediment in the sampled zone (from the water surface to a point approximately 0.3 ft above the bed) expressed as milligrams of dry sediment per litre of water-sediment mixture (mg/l).

Mean concentration is the time-weighted concentration of suspended sediment passing a stream section during a 24-hour day.

Solute is any substance derived from the atmosphere, vegetation, soil, or rocks that is dissolved in water.

Specific conductance is a measure of the ability of a water to conduct an electrical current and is expressed in micromhos per centimetre at 25°C. Because the specific conductance is related to the number and specific chemical types of ions in solution, it can be used for approximating the dissolved-solids content in the water. Commonly, the amount of dissolved solids (in milligrams per litre) is about 65 percent of the specific conductance (in micromhos per cm at 25°C). This relation is not constant from stream to stream or from well to well, and it may even vary in the same source with changes in the composition of the water.

Stage-discharge relation is the relation between gage height and the amount of water flowing in a channel, expressed as volume per unit of time.

Streamflow is the discharge that occurs in a natural channel. Although the term "discharge" can be applied to the flow of a canal, the word "streamflow" uniquely describes the discharge in a surface stream course. The term "streamflow" is more general than "runoff". Streamflow may be applied to discharge whether or not it is affected by diversion or regulation.

Thermograph is a thermometer that continuously and automatically records, on a chart, the water temperatures of a stream. "Temperature recorder" is the term used to indicate the location of the thermograph or a digital mechanism that automatically records water temperature on pape tape.

Tons per day is the quantity of a substance is solution or suspension that passes a stream section during a 24-hour day.

Total (as used in tables of chemical analyses) refers to the amount of a substance that is present both in solution and in suspension. Analyses are performed on representative samples of water-suspended sediment mixtures.

WRD is used as an abbreviation for "Water-Resources Data" in the summary REVISIONS paragraph to refer to previously published State annual basic-data reports.

WSP is used as an abbreviation for "Water-Supply Paper" in reference to previously published reports.

SPECIAL NETWORKS AND PROGRAMS

Some of the stations for which data are published in this report are included in special networks and programs. These stations are identified by their title, set in parentheses, under the station name.

Hydrologic bench-mark station is one that provides hydrologic data for a basin in which the hydrologic regimen will likely be governed solely by natural conditions. Data collected at a bench-mark station may be used to separate effects of natural from manmade changes in other basins which have been developed and in which the physiography, climate, and geology are similar to those in the undeveloped bench-mark basin.

National stream-quality accounting network is an accounting network designed by the U.S. Geological Survey to meet many of the information demands of agencies or groups involved in national or regional water-quality planning and management. Both accounting and broad-scale monitoring objectives have been incorporated in the network design. Areal configuration of the network is based on river-basin accounting units designated by the Office of Water Data Coordination in consultation with the Water Resources Council. Primary objectives of the network are (1) to depict areal variability of water-quality conditions nationwide on a year-to-year basis and (2) to detect and assess long-term changes in stream quality.

Pesticide program is a network of regularly sampled water-quality stations where additional monthly samples are collected to determine the concentration and distribution of pesticides in streams whose waters are used for irrigation or in streams in areas where potential contamination could result from the application of the commonly used insecticides and herbicides.

Radiochemical program is a network of regularly sampled water-quality stations where additional samples are collected monthly or twice a year (at high and low flow) to be analyzed for radioisotopes. The streams that are sampled represent major drainage basins in the conterminous United States.

DOWNSTREAM ORDER AND STATION NUMBER

Stations are listed in downstream direction along the main stream, and stations on tributaries are listed between stations on the main stream in the order in which those tributaries enter the main stream. Stations on tributaries entering above all mainstream stations are listed before the first mainstream station. Stations on tributaries to tributaries are listed in a similar manner. In the list of water-quality stations in the front of this report the rank of tributaries is indicated by indention, each indention representing one rank.

As an added means of identification, each water-quality station, gaging station, and partial-record station has been assigned a station number. These are in the same downstream order used in this report. In assigning station numbers, no distinction is made between partial-record and continuous-record stations: therefore, the station number for a partial-record station indicates downstream order position in a list made up of both types of stations. Water-quality stations located at or near gaging stations or partial-record stations have the same number as the gaging or partial-record station. Gaps are left in the numbers to allow for new stations that may be established; hence the numbers are not consecutive. The complete 8-digit number for each station, such as 01463500 which appears just to left of the station name includes the 2-digit part number "01" plus the 6-digit downstream order number "463500." In this report, the records are listed in downstream order by parts. The part number refers to an area whose boundaries coincide with certain natural drainage lines. Records in this report are in Section 1 (North Atlantic slop basins). All records for a drainage basin encompassing more than one State could be arranged in downstream order by assembling pages from the various State reports by station number to include all records in the basin.

NUMBERING SYSTEM FOR WELLS AND MISCELLANEOUS SITES

Miscellaneous downstream order station numbers are not assigned to wells and miscellaneous sites where only random water-quality samples or discharge measurements are taken.

The wells and miscellaneous site numbering system of the U.S. Geological Survey is based on the grid system of latitude and longitude. The system provides the geographic location of the well or miscellaneous site and a unique number for each site. The number consists of 15 digits. The first 6 digits denote the degrees, minutes, and seconds of latitude, the next

7 digits denote degrees, minutes, and seconds of longitude, and the last 2 digits is a sequential number for wells within a 1-second grid. In the event that the latitude-longitude coordinates for a well and a miscellaneous site are the same, assign sequential number "01", "02", etc. as one would for wells. See figure 1 below.

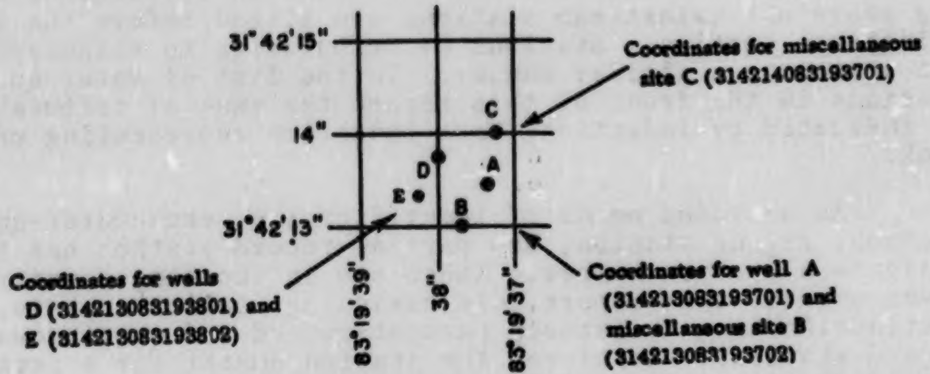

31°42'15"
14"
31°42'13"
83°19'39"
38"
83°19'37"
A
B
C
D
E
Coordinates for miscellaneous site C (314214083193701)
Coordinates for wells D (314213083193801) and E (314213083193802)
Coordinates for well A (314213083193701) and miscellaneous site B (314213083193702)

Figure 1. System for numbering wells and miscellaneous sites (latitude and longitude)

EXPLANATION OF SURFACE-WATER RECORDS

Collection and Computation of Data

The base data collected at gaging stations consist of records of stage and measurements of discharge of streams or canals, and stage, surface area, and contents of lakes or reservoirs. In addition, observations of factors affecting the stage-discharge relation or the stage-capacity relation, weather records, and other information are used to supplement base data in determining the daily flow or volume of water in storage. Records of stage are obtained from a water-stage recorder that gives a continuous graph of the fluctuations (for digital recorders, a tape punched at 5-, 15-, 30-, or 60-minute intervals) or from direct readings on a nonrecording gage. Measurements of discharge are made with a current meter, using the general methods adopted by the Geological Survey on the basis of experience in stream gaging since 1888. These methods are described in standard textbooks on the measurement of stream discharge. (See also SELECTED REFERENCES.) Surface areas of lakes or reservoirs are determined from instrument surveys using standard methods. The configuration of the reservoir bottom is determined by sounding at many points.

For a stream-gaging station rating tables giving the discharge for any stage are prepared from stage-discharge relation curves defined by discharge measurements. If extensions to the rating curves are necessary to define the extremes of discharge, they are made on the basis of indirect measurements of peak discharge (such as slope-area or contracted-opening measurements, computation of flow over dams or weirs), velocity-area studies, and logarithmic plotting. The application of the daily mean gage heights to the rating table gives the daily mean discharge, from which the monthly and the yearly mean discharge are computed. If the stage-discharge relation is subject to change because of frequent or continual change in the physical features that form the control, the daily mean discharge is determined by the shifting-control method, in which correction factors based on individual discharge measurements and notes by engineers and observers are used in applying the gage heights to the rating tables. If the stage-discharge relation for a station is temporarily changed by the presence of aquatic growth or debris on the control, the daily mean discharge is computed by what is basically the shifting-control method.

At some stream-gaging stations the stage-discharge relation is affected by backwater from reservoirs, tributary streams, or other sources. This necessitates the use of the slope method in which the slope or fall in a reach of the stream is a factor in determining discharge. Information required for determining the slope or fall is obtained by means of an auxiliary gage set at some distance from the base gage. At some stations the stage-discharge relation is affected by changing stage; at these stations the rate of change in stage is used as a factor in determining discharge.

At some stream-gaging stations the stage-discharge relation is affected by ice in the winter, and it becomes impossible to compute the dicharge in the usual manner. Discharge for periods of ice effect is computed on the basis of the gage-height record and occasional winter discharge measurements, consideration being given to the available information on temperature and precipitation, notes by gage observers and hydrologists, and comparable records of discharge for other stations in the same or nearby basins.

For a lake or reservoir station, capacity tables giving the contents for any stage are prepared from stage-area relation curves defined by surveys. The application of the stage to the capacity table gives the contents, from which the daily, monthy, or yearly change in contents is computed. Discharge over spillways is computed from a stage-discharge relation curve defined by discharge measurements.

If the stage-capacity curve is subject to changes because of deposition of sediment in the reservoir, periodic resurveys of the reservoir are necessary to define new stage-capacity curves. During the period between reservoir surveys the computed contents may be increasingly in error due to the gradual accumulation of sediment.

For some gaging stations there are periods when no gage-height record is obtained or the recorded gage height is so faulty that it cannot be used to compute daily discharge or contents. This happens when the recorder stops or otherwise fails to operate properly, intakes are plugged, the float is frozen in the well, or for various other reasons. For such periods the daily discharges are estimated on the basis of recorded range in stage, adjoining good record, discharge measurements, weather records, and comparison with other station records from the same or nearby basins. Likewise daily contents may be estimated on the basis of operator's log, adjoining good record, inflow-outflow studies, and other information.

The data in this report generally comprise a description of the station and tabulations of basic data. For gaging stations on streams or canals a table showing the daily discharge and monthly and yearly discharge is given. For gaging stations on lakes and reservoirs a monthly summary table of stage and contents or a table showing the daily contents is given. Tables of daily mean gage heights are included for some streamflow stations and for some reservoir stations. Records are published for the water year, which begines on October 1 and ends on September 30. A calendar for the 1975 water year is shown on the reverse side of the front title page to facilitate finding the day of the week for any date.

The description of the gaging station gives the location, drainage area, period of record, type and history of gages, average discharge, extremes of discharge or contents, and general remarks. The location for the gaging station and the drainage area are obtained from the most accurate maps available. River mileage, given under "LOCATION" for some stations, is that determined and used by the Corps of Engineers or other agencies. Periods for which there are published records for the present stations or for stations generally equivalent to the present one are given under "PERIOD OF RECORD." The type of gage currently in use, the datum of the present gage above mean sea level, and a condensed history of the types, locations, and datums of previous gages used during the period of record are given under "GAGE." In references to datum of gage, the phrase "mean sea level" denotes "Sea Level Datum of 1929" as used by the Topographic Division of the Geological Survey, unless otherwise qualified. The average discharge for the number of years indicated is given under "AVERAGE DISCHARGE"; it is not given for stations having fewer than 5 complete years of record or for stations where changes in water development during the period of record cause the figure to have little significance. In addition, the median of yearly mean discharge is given for stream-gaging stations having 10 or more complete years of record if the median differs from the average by more than 10 percent. The maximum discharge (or contents) and the maximum gage height, the minimum discharge if there is little or no regulation (or the minimum contents), and the minimum gage height if it is significant are given under "EXTREMES." The minimum daily discharge is given if there is extensive regulation (also the minimum discharge and gage height if they are abnormally low). In the first paragraph headed "Current year:" the data given are for the complete current water year unless otherwise specified. In the second paragraph under "EXTREMES" headed "Period of record:" the data given are for the period of record given in the "PERIOD OF RECORD" paragraph. Reliable information concerning major floods that occurred outside the period of records is given in the third or last paragraph under "EXTREMES." Unless otherwise qualified, the maximum discharge (or contents) corresponds to the crest stage obtained by use of a water-stage recorder (graphic or digital), a crest-stage gage, or a nonrecording gage read at the time of the crest. If the maximum gage height did not occur at the same time as the maximum discharge or contents, it is given separately. Information pertaining to the accuracy of the discharge records, to conditions that affect the natural flow at the gaging station, and availability of Water Quality records, is given under "REMARKS"; for reservoir stations information on the dam forming the reservoir, the capacity, outlet works and spillway, and purpose and use of the reservoir, is also given under "REMARKS."

Previously published records of some stations have been found to be in error on the basis of data or information later obtained. Revisions of such records are usually published along with the current records in one of the annual or compilation reports. In order to make it easier to find such revised records, a paragraph headed "REVISIONS (WATER YEARS)" has been added to the description of all stations for which revised records have been published. Listed therein are all the reports in which revisions have been published, each followed by the water years for which figures are revised in that report. In listing the water years only one number is given; for instance, 1933 stands for the water year October 1, 1932, to September 30, 1933. If no daily, monthly, or annual figures of discharge were revised, that fact is brought out by notations after the year dates as follows: "(M)" means that only the instantaneous maximum discharge was revised; "(m)" that only the instantaneous minimum was revised; and "(P)" that only peak discharges were revised. If the drainage area has been revised, the report in which the revised figure was first published is given. It should be noted that for all stations for which cubic feet per second per square mile and runoff in inches are published, a revision of the drainage area necessitates corresponding revision of all figures based on the drainage area. Revised figures of cubic feet per second per square mile and runoff in inches resulting from a revision of the drainage area only are usually not published in the annual series of reports.

The daily tables for stream-gaging stations give the discharge corresponding to the daily mean gage height unless there are large or rapid changes in the discharge during a day. For days having large or rapid changes, discharge for the day is computed by averaging the mean discharge for several parts of a day. For digital recorders, the daily mean discharge is always the average of the discharges at each punched reading. For stations equipped with nonrecording gages, the daily discharge corresponds to once-daily readings of the gage or to the mean of twice-daily readings; but for periods of rapidly changing stage the discharge is determined from a gage-height graph based on gage readings.

The daily tables for reservoir stations give the contents corresponding to the water-surface elevation at a given time, usually at 2400 each day. For some reservoirs the elevation at a given time is given in the daily table.

The monthly summary is given below the daily table. For stream-gaging stations the line headed "TOTAL" gives the sum of the daily figures. When the summary total exceeds 6 figures (999,999) the figure is expressed in thousands of cubic feet per second to the nearest tenth because of limitations in the computer. That is, one million cubic feet per second is expressed as 1,000.0 M. The line headed "MEAN" gives the average flow in cubic feet per second during the month. The lines headed "MAX" and "MIN" give the maximum and minimum daily discharges, respectively, for the month. Discharge for the month also may be expressed in cubic feet per second per square mile (line headed "CFSM"), or in inches (line headed "IN.") or in acre-feet (line Headed "AC-Ft"). Figures of cubic feet per second per square mile and runoff in inches are omitted if there is extensive regulation or diversion, if the drainage area includes large noncontributing areas, or if the average rainfall on the drainage basin is usually less than 20 inches.

For reservoir stations the monthly summary gives the elevation (or gage height) at the end of the month and the change in contents during the month. If elevation or gage height is given in the daily table, the monthly summary gives the contents at the end of the month, rather than the elevation or gage height. For some reservoirs a tabulation of monthly evaporation from the water surface also is included.

In the yearly summary below the monthly summary, the figures following "MAX" are the maximum daily discharges for the calendar and water years; likewise, those following "MIN" are the minimum daily discharges.

For reservoir stations the yearly summary gives the change in contents for the calendar year and for the water year. For some reservoirs the yearly evaporation also is included.

Peak discharge and their times of occurrence and corresponding gage heights for many stations are listed below the yearly summary. All independent peaks above the selected base are given. The base discharge, which is given in parentheses, is selected so that an average of about three peaks a year can be presented. Peak discharges are not published for any canals, ditches, drains, or for any streams for which the peaks are subject to substantial control by man. Time of day is expressed in 24-hour local standard time; for example, 12:30 a.m. is 0030 and 1:30 p.m. is 1330.

In a general footnote, introduced by the word "NOTE" certain periods are indicated for which the dicharge is computed or estimated by special methods because of no gage-height record, backwater from various sources, or other unusual conditions. Periods of no gage-height record are indicated if the period is continuous for a month or more or includes the maximum discharge for the year. Periods of backwater from an unusual source, of indefinite stage-discharge relation, or of any other unusual condition at the gage indicated only if they are a month or more in length and the accuracy of the records is affected. Days on which the stage-discharge relation is affected by ice are not indicated. The methods used in computing discharge for various unusual conditions have been explained in preceding paragraphs. Footnotes to reservoir tables may be used to explain the use of new capacity tables or for other special conditions.

Accuracy of Data

The accuracy of discharge data depends primarily on (1) the stability of the stage-discharge relation or, if the control is unstable, the frequency of discharge measurements, and (2) the accuracy of observations of stage, measurements of discharge, and interpretation of records.

The station description under "REMARKS" states the degree of accuracy of the records. "Excellent" means that about 95 percent of the daily discharges are within 5 percent; "good" within 10 percent; and "fair" within 15 percent. "Poor" means that daily discharges have less than "fair" accuracy.

Figures of daily mean discharge in this report are shown to the nearest hundredth of a cubic foot per second for discharges of less than 1 cfs; to tenths between 1.0 and 10 cfs; to whole numbers between 10 and 1,000 cfs; and to 3 significant figures above 1,000 cfs. The number of significant figures used is based solely on the magnitude of the figure. The same rounding rules apply to discharge figures listed for partial-record stations and miscellaneous sites.

Discharge at many stations, as indicated by the monthly mean, may not reflect natural runoff due to the effects of diversion, consumptive use, regulation, evaporation, or other factors. For such stations, discharge in cubic feet per second per square mile and runoff in inches are not published unless satisfactory adjustments can be made for such effects. Evaporation from a reservoir is not included in the adjustments for changes in reservoir contents, unless it is so stated. Even at those stations where adjustments are made, large errors in computed runoff may occur if adjustments or unadjusted losses (consumptive use, evaporation, seepage, etc.) are large in comparison with the observed discharge.

Publications

Each volume of the 1960 series of U.S. Geological Survey water-supply papers entitled "Surface Water Supply of the United States" contains a listing of the numbers of all water-supply papers in which records of surface-water data were published for the area covered by the individual volumes. Each volume also contains a list of water-supply papers that give detailed information on major floods for the area. A new series of water-supply papers containing surface-water records for the 5-year period October 1, 1965 to September 30, 1970, also will include lists of annual and special reports published as water-supply papers.

Records through September 1950 for the area covered by this report have been compiled and published in Water-Supply Paper 1302; records for October 1950 to September 1960 have been compiled and published in Water-Supply Paper 1722; records for October 1960 to September 1965 have been compiled and published in Water-Supply Paper 1902. Records for October 1965 to September 1970 will be published soon in Water-Supply Paper 2102. These reports contain summaries of monthly and annual discharge and month end storage for all previously published records, as well as some records not contained in the annual series of water-supply papers. All records were reexamined and revised where warranted. Estimates of discharge were made to fill short gaps whenever practical. The yearly summary table for each gaging station lists the numbers of the water-supply papers in which daily records were published for that station.

Special reports on major floods or droughts or of other hydrologic studies for the area have been issued in publications other than water-supply papers. Information relative to these reports may be obtained from the district office.

Other Data Available

Data collected at partial-record stations and at miscellaneous sites are given in three tables at the end of the gaging-station records in this report. The first is a table of discharge measurements at low-flow partial-recods stations, the second is a table of annual maximum stage and dicharge at crest-stage stations, the third is a table of discharge measurements at miscellaneous sites. Tide data are included in a special section of this report.

More detailed information than that published for most of the gaging stations, such as discharges measurements, gage-height records, and rating tables, is on file in the district office. Many gaging-station records in New Jersey through 1967 have been analyzed to give several statistical summaries: (1) the number of days in each year that the daily discharge was between selected limits (duration tables); (2) the lowest mean discharge for selected numbers of consecutive days in each year; and (3) the highest mean discharge for selected numbers of consecutive days in each year. These statistical summaries were published in New Jersey Water Resources Circular No. 23 in 1970.

At or near some gaging stations, water-quality records also are collected. Data are obtained on the chemical, physical and biological quality of the stream water. These data are given in Section 2 of this report. Under the "REMARKS" paragraph of the gaging-station description, reference is made to water-quality records collected on a regular basis.

Records of Discharge Collected by Agencies Other Than the Geological Survey

Records of discharge not published by the Geological Survey were collected in New Jersey at 40 sites during the water years October 1960 to current year by the following agencies: records at 7 sites were collected by New Jersey State Department of Environmental Protection (formerly Department of Conservation and Economic Development); at 4 sites by the North Jersey District Water Supply Commission; at 14 sites by Passaic County; at 5 sites by the National Weather Service; at 2 sites by the National Ocean Survey; at 3 sites by the Corps of Engineers, and 5 sites by Delaware River Joint Toll Bridge Commission.

EXPLANATION OF WATER-QUALITY RECORDS

Collection and Examination of Data

Water samples for analyses usually are collected at or near gaging stations. The discharge records at these stations are used in conjunction with the computations of the chemical constituents and sediment loads. Discharge records for streams in New Jersey have been released in Section 1 of this publication.

The data in this report include a description of the sampling station and tabulations of the samples analyzed. The description of the sampling station gives the location, drainage area, periods of record for the various water-quality data, extremes of the pertinent data, and general remarks, in a format similar to that used for streamflow gaging stations. For ground-water sampling stations, no descriptive statements are given. However, the well number, depth of well, date of sampling, and/or other pertinent data are given in the table containing the chemical analyses of ground water.

Water-quality information is presented for chemical, biological, and microbiological quality, water temperature, and fluvial sediment. Chemical quality includes concentrations of individual dissolved constituents and certain properties or characteristics such as hardness, sodium-adsorption-ratio, specific conductance, and pH. The biological information includes qualitative and quantitative analyses of plankton, bottom organisms, and particulate inorganic and amorphous matter present. Microbiological information includes quantitative identification of certain bacteriological indicator organisms. Water-temperature data represent once-daily observations except for stations where a continuous temperature recorder (thermograph) furnishes information from which daily minimums and maximums are obtained, or else where a water-quality noncontinuous-digital monitor furnishes hourly temperature readings that provide daily maximum, minimum, and mean temperature data summaries. Fluvial-sediment information is given for suspended-sediment discharges and concentrations and for particle-size distribution of suspended sediment.

Prior to the 1968 water year, data for chemical constituents and concentrations of suspended sediment were reported in parts per million (ppm) and water temperatures were reported in degrees Fahrenheit (°F). In October 1967, the U.S.

Geological Survey began reporting data for chemical constituents and concentrations of suspended sediment in milligrams per litre (mg/l) and water temperatures in degrees Celsius (°C). In waters with a density of 1.000 g/ml (grams per millilitre), parts per million and milligrams per litre can be considered equal. In waters with a density greater than 1.000 g/ml, values in parts per million should be multiplied by the density to convert to milligrams per litre. Temperatures reported in degrees Celsius may be converted to degrees Fahrenheit by using the table below.

In October 1968, the Geological Survey began reporting many of the chemical constituents as well as the minor elements in micrograms per litre instead of milligrams per litre. (See "Definitions of Terms," p. 7 and table for converting English Units to SI Units, p. 40).

Table 3.--Degrees Celsius (°C) to degrees Fahrenheit (°F)*
(Temperature reported to nearest 0.5°C)

°C	°F	°C	°F	°C	°F	°C	°F	°C	°F
0.0	32	10.0	50	20.0	68	30.0	86	40.0	104
.5	33	10.5	51	20.5	69	30.5	87	40.5	105
1.0	34	11.0	52	21.0	70	31.0	88	41.0	106
1.5	35	11.5	53	21.5	71	31.5	89	41.5	107
2.0	36	12.0	54	22.0	72	32.0	90	42.0	108
2.5	36	12.5	54	22.5	72	32.5	90	42.5	108
3.0	37	13.0	55	23.0	73	33.0	91	43.0	109
3.5	38	13.5	56	23.5	74	33.5	92	43.5	110
4.0	39	14.0	57	24.0	75	34.0	93	44.0	111
4.5	40	14.5	58	24.5	76	34.5	94	44.5	112
5.0	41	15.0	59	25.0	77	35.0	95	45.0	113
5.5	42	15.5	60	25.5	78	35.5	96	45.5	114
6.0	43	16.0	61	26.0	79	36.0	97	46.0	115
6.5	44	16.5	62	26.5	80	36.5	98	46.5	116
7.0	45	17.0	63	27.0	81	37.0	99	47.0	117
7.5	45	17.5	63	27.5	81	37.5	99	47.5	117
8.0	46	18.0	64	28.0	82	38.0	100	48.0	118
8.5	47	18.5	65	28.5	83	38.5	101	48.5	119
9.0	48	19.0	66	29.0	84	39.0	102	49.0	120
9.5	49	19.5	67	29.5	85	39.5	103	49.5	121

*C = 5/9 (°F - 32) or °F = 9/5 (°C) + 32.

Solutes

Most methods for collecting and analyzing water samples to determine the kinds and concentrations of solutes are described by Brown, Skougstad, and Fishman. The method for determining elemental constituents by emission spectrographic techniques is described by Barnett and Mallory. Analysis of pesticides, herbicides, and organic substances in water are described by Goerlitz and Lamar, Lamar, Goerlitz, and Law, and Goerlitz and Brown. The collection and analysis of aquatic, biological and microbiological samples are described by Slack and others.

One sample can define adequately the water quality at a given time if the mixture of solutes throughout the stream cross section is homogeneous. However, the concentration of solutes at different locations in the cross section may vary widely with different rates of water discharge, depending on the source of material and the turbulence and mixing of the stream. Some streams must be sampled through several vertical sections to obtain a representative sample needed for an accurate mean concentration and for use in calculating load.

Chemical-quality data published in this report are considered to be the most representative values available for the stations listed. The values reported represent water-quality conditions at the time of sampling as much as possible, consistent with available sampling techniques and methods of analysis. In the possible case where an apparent inconsistency exists between the reported pH value and the relative abundance of carbon dioxide species (carbonate and bicarbonate), the inconsistency is the result of a slight uptake of carbon dioxide from the air by the sample between measurement of pH in the field and determination of carbonate and bicarbonate in the laboratory.

The daily chemical quality data in this report generally represent equal-volume composites for 2- to 30-day periods; the composite periods are selected on the basis of specific conductance of the daily samples and fluctuation of water discharge.

For chemical-quality stations equipped with noncontinuous-digital monitors, the records consist of daily maximum, minimum, and mean values for each constituent measured and are based upon hourly punches beginning at 0100 hours and ending at 2400 hours for the day of record. More detailed records (hourly values) may be obtained from the U.S. Geological Survey district office at the address given on the back of the title page of this report.

Ground-water normally does not change significantly during short periods of time; infrequent sampling and analysis of ground water adequately defines ground-water quality at a given site. Water samples from wells are analyzed individually.

Temperature

Water temperatures are measured at most of the water-quality stations. In addition, water temperatures are taken at time of discharge measurements for surface-water stations. For daily stations, the water temperatures are taken at about the same time each day when sample is collected. Large streams have a small diurnal temperature change; shallow streams may have a daily range of several degrees and may follow closely the changes in air temperature. Some streams may be affected by waste-heat discharges. Influential factors, field measurement, and data representation of temperature are described by Stevens, Ficke and Smoot.

At station where continuously recording thermographs are present, the records consist of maximum and minimum temperatures for each day. At stations where there is a non-continuous-digital water quality monitor which provide hourly readings, the records consist of daily maximum, minimum, and mean temperature data summaries.

Sediment

Suspended-sediment concentrations are determined from samples collected by using depth-integrating samplers. Samples usually are obtained at several verticals in the cross-section, or a single sample may be obtained at a fixed point and a coefficient applied to determine the mean concentration in the cross sections.

During periods of rapidly changing flow or rapidly changing concentration, samples may have been collected more frequently (twice daily or, in some instances, hourly). The published sediment discharges for days of rapidly changing flow or concentration were computed by the sub-divided day method (time-discharge weighted average). Therefore, for those days when the published sediment discharge value differs from the value computed as the product of discharge times mean concentration times 0.0027, the reader can assume that the sediment discharge for that day was computed by the sub-divided day method. For periods when no samples were collected, daily loads of suspended sediment were estimated on the basis of water discharge, sediment concentrations observed immediately before and after the periods, and suspended-sediment loads for other periods of similar discharge.

At other stations, suspended-sediment samples were collected periodically at many verticals in the stream cross section. Although data collected periodically may represent conditions only at the time of observations, such data are useful in establishing seasonal relations between quality and streamflow in predicting long-term sediment-discharge characteristics of the stream.

In addition to the records of the quantities of suspended sediment, records of the periodic measurements of the particle-size distribution of the suspended sediment are included.

PUBLICATIONS

Table 4 below, shows the annual series of water-supply papers that give information on quality of surface waters in New Jersey, Section 1. North Atlantic slope basins.

Table 4.--Water-supply paper (WSP) numbers and parts, water years, 1945-70

Year	WSP	Parts	Year	WSP	Parts	Year	WSP	Parts
1945	1030	1-14	1954	1350	1-4	1963	1947	1-2
1946	1050		1955	1400		1964	1954	
1947	1102		1956	1450		1965	1961	
1948	1132	1-4	1957	1520		1966	1991	
1949	1162		1958	1571	1-2	1967	2011	
1950	1186		1959	1641		1968	2091	1
1951	1197		1960	1741		1969	2141	
1952	1250		1961	1881		1970	A2151	
1953	1290		1962	1941				

A In press.

SURFACE-WATER CONDITIONS

Runoff for the 1975 water year, again, averaged about 140 percent of normal over New Jersey or the same as the preceding year. The last four water years (1972-75) averaged from 30 to 50 percent more runoff than the long term averages, at various stream-gaging stations, over the State, making it the highest four year period of runoff for at least 75 years. Small intense thunderstorms occurring on July 15, 21 and September 25 caused major flooding over several areas of the State. Highest peaks of record (since 1921) were noted in the Assunpink Creek basin on July 21 and the storm of September 25-26, established some new peaks of record in the Hackensack River basin.

Graphical illustrations of stream conditions during the year, in comparison with long term records for three index stations, are shown on the adjacent pages. The streamflow stations chosen for illustration were the South Branch Raritan River near High Bridge and the Great Egg Harbor River at Folsom, which reflect runoff conditions in the northern and southern parts of the State, respectively, and Delaware River at Trenton in which there is widespread interest. The variation in streamflow from day to day, month to month, and year to year may be observed in the separate illustrations provided.

Streamflow at South Branch Raritan River near High Bridge for the year averaged 186 ft^3/s (5.27 m^3/s), 156 percent of normal. The average flow for Great Egg Harbor River at Folsom was 106 ft^3/s (3.00 m^3/s) 123 percent of normal. The observed yearly mean discharge on the Delaware River at Trenton was 15,260 ft^3/s (432 m^3/s) 131 percent of normal. The natural flow at Trenton (adjusted for diversion and storage upstream) was about 142 percent of normal for the water year.

All of the 13 major water-supply reservoirs were full or spilling on September 30 with the exception of the five in the Newark system which were filled to 94 percent of usuable capacity. The combined storage in these reservoirs amounted to 76.9 billion gallons or 291.107 million cubic metres (101 percent of total usable capacity) as a result of the heavy rains on September 25, 26. Pumped storage in Round Valley Reservoir at the end of the year was 54.7 billion gallons (207.040 million cubic metres) which is 99 percent of total usable capacity or a gain of 0.8 billion gallons (3.028 million cubic metres) over the same time last year. Low flow augmentation and quality-control releases were made from Round Valley to small outlet streams during the year.

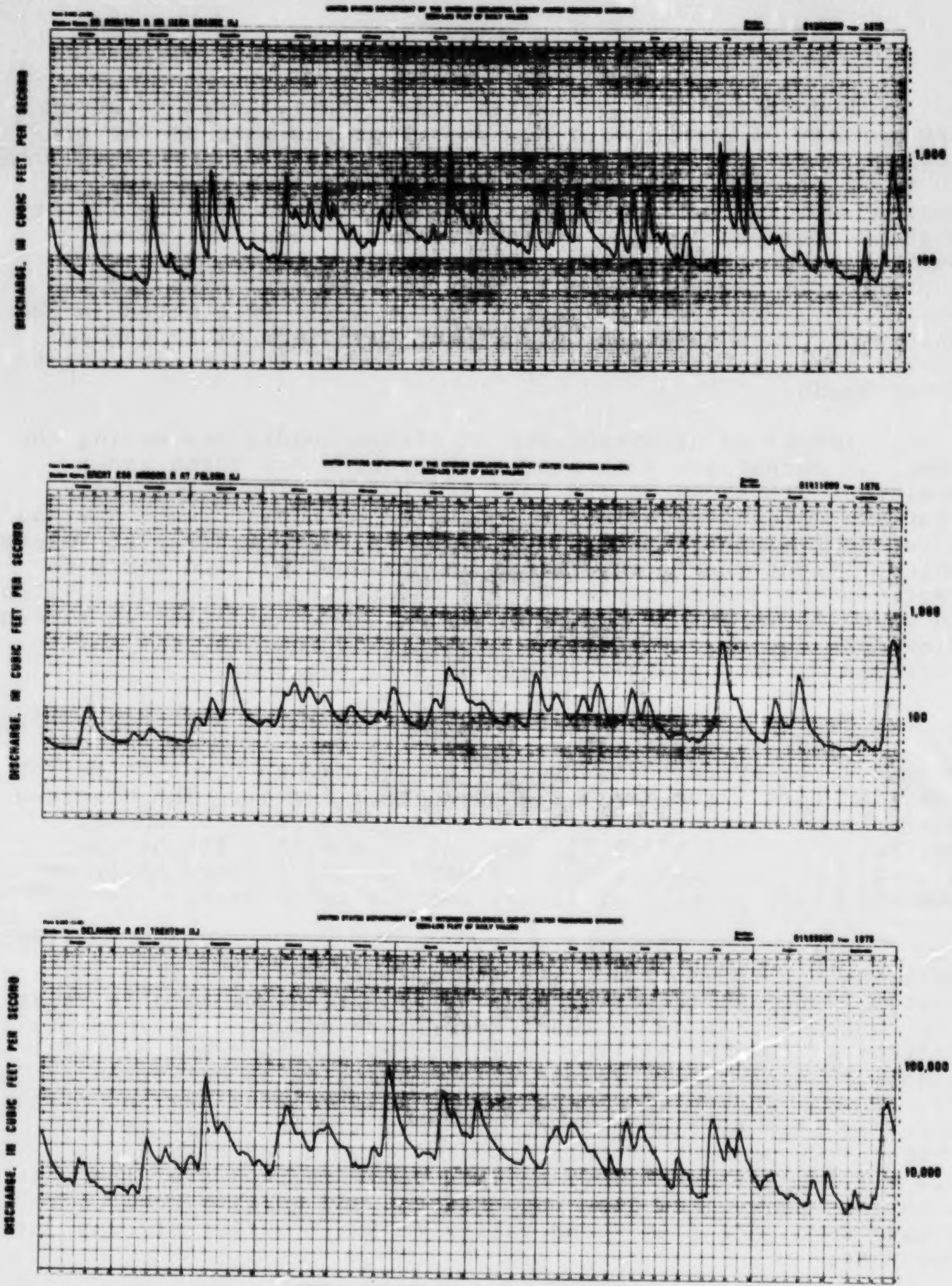
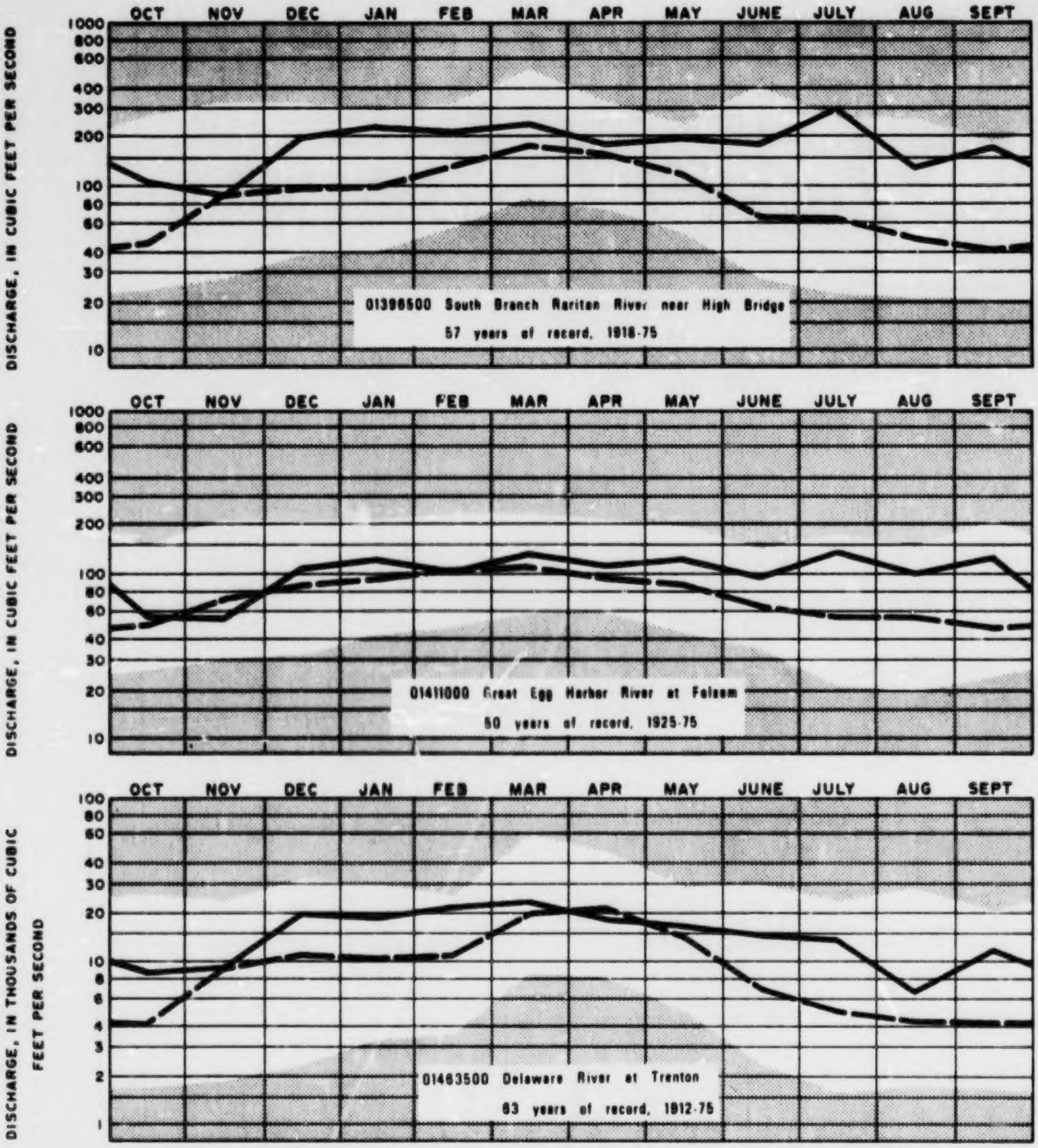


FIGURE 2.--DAILY STREAMFLOW AT KEY GAGING STATIONS

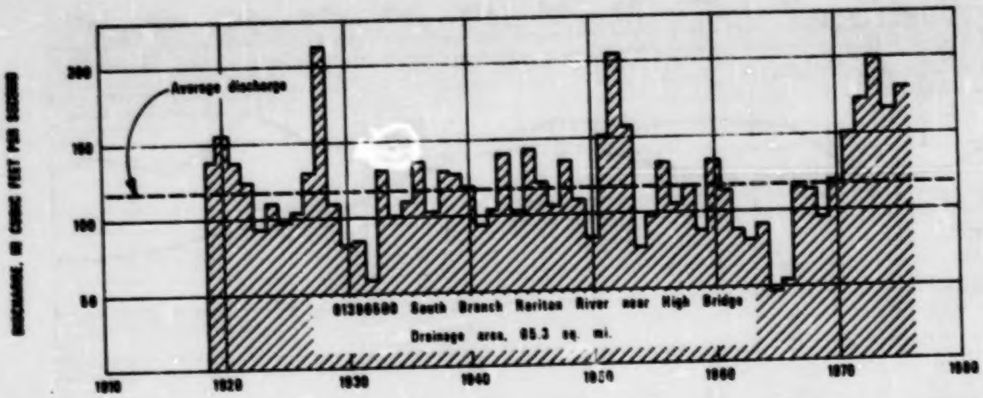


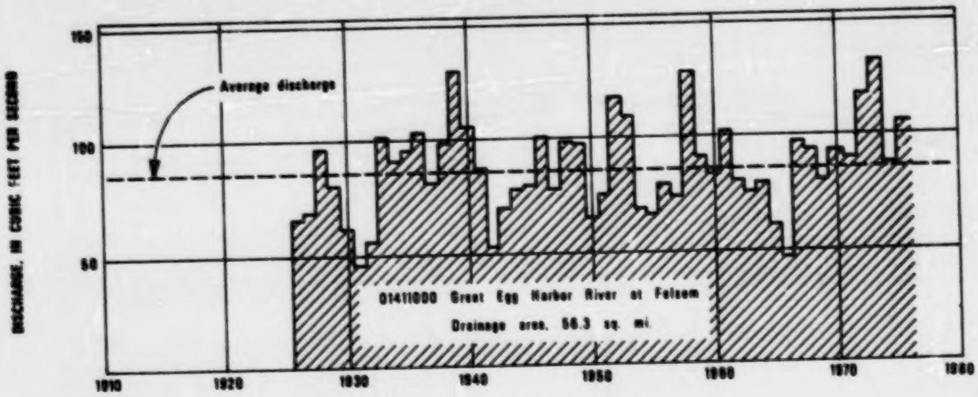
Unshaded area.--Indicates range between highest and lowest mean recorded for the month prior to 1975 water year.

Dashed line.--Indicates normal (median of the monthly means) for the standard reference period 1941-70.

Solid line.--Indicates observed monthly mean flow for the 1975 water year.

FIGURE 3.--MONTHLY STREAMFLOW AT KEY GAGING STATIONS





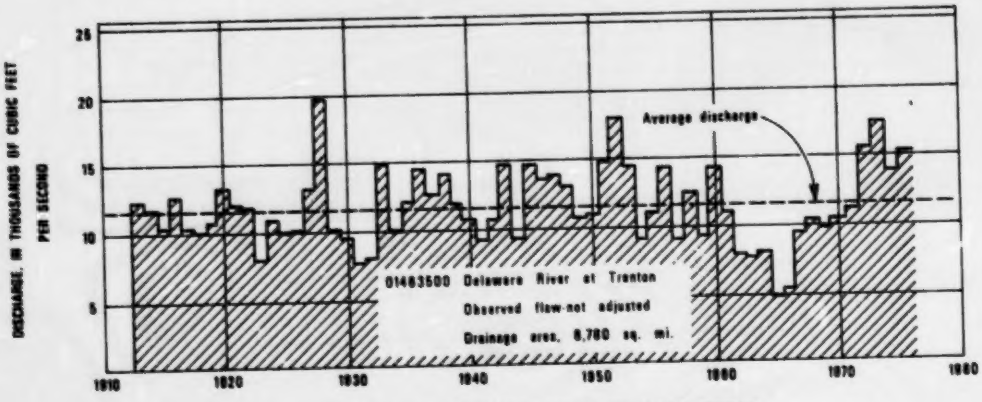


FIGURE 4.--ANNUAL MEAN DISCHARGE AT KEY GAGING STATIONS

WATER-QUALITY CONDITIONS

Water-quality conditions, as reflected by dissolved-solids and dissolved-oxygen content, at two stream sampling sites are illustrated graphically on page . These water-quality stations were selected for illustration because the sampling points are (1) near, but above the influence of tide, and (2) the available records are long term, systematic, and accurate. The variations in dissolved solids and dissolved oxygen from month to month during the 1975 water year (solid line) may be compared with the average (dashed line) for a base period (1964-1974) and with the maximum and minimum monthly values for a particular month recorded during the base period. Whenever the solid-line graph coincides with the maximum or minimum graphs (edge of stippling), it denotes the mean value for the month of the current water year was record-high or record-low. Records were collected at varying frequencies, ranging from hourly to monthly sampling.

The accompanying graphs (fig. 5) were prepared partly from data provided by the Passaic Valley Water Commission (Passaic), to whom the compilers of this report are indebted.

Please note the following error published in WRD-NJ 1974 Part 2. Water Quality Records. In figure 4, page 20, the water-quality conditions graphs were shown under the incorrect stations. The top graph is actually for 01463500 Delaware River at Trenton, and the bottom graph is actually for 01408500 Toms River near Toms River. Please note also that the station name for 01408500 should be Toms River near Toms River, and not Toms River at Toms River, as it was actually published.

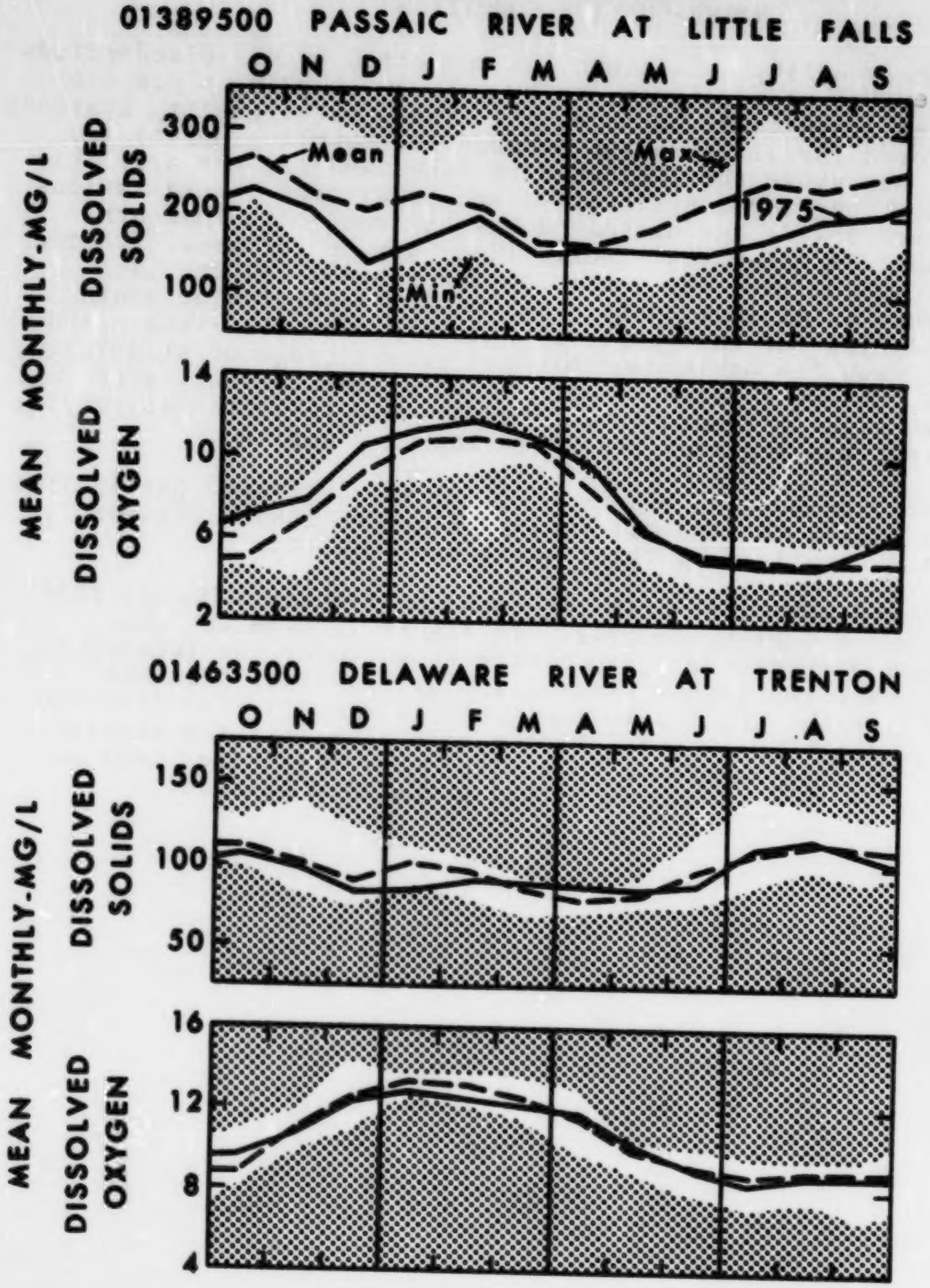


Figure 5.--Water-quality conditions,
1975 water year

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Table 5.--Factors for converting English units to International System (SI) units

The following factors may be used to convert the English units published herein to the International System of Units (SI). Subsequent reports will contain both the English and SI unit equivalents in the station manuscript descriptions until such time that all data will be published in SI units.

Multiply English units	By	To obtain SI units
	Length	
inches (in)	25.4	millimetres (mm)
	.0254	metres (m)
feet (ft)	.3048	metres (m)
yards (yd)	.9144	metres (m)
rods	5.0292	metres (m)
miles (mi)	1.609	kilometres (km)
	Area	
acres	4047	square metres (m^2)
	.4047	*hectares (ha)
	.4047	square hectometres (hm^2)
	.004047	square kilometres (km^2)
square miles (mi^2)	2.590	square kilometres (km^2)
	Volume	
gallons (gal)	3.785	**litres (l)
	3.785	cubic decimetres (dm^3)
	3.785×10^{-3}	cubic metres (m^3)
million gallons (10^6 gal)	3785	cubic metres (m^3)
	3.785×10^{-3}	cubic hectometres (hm^3)
cubic feet (ft^3)	28.32	cubic decimetres (dm^3)
	.02832	cubic metres (m^3)
cfs-days [$(ft^3/s) \cdot d$]	2447	cubic metres (m^3)
	2.447×10^{-3}	cubic hectometres (hm^3)
acre-feet (acre-ft)	1233	cubic metres (m^3)
	1.233×10^{-3}	cubic hectometres (hm^3)
	1.233×10^{-6}	cubic kilometres (km^3)
	Flow	
cubic feet per second (ft^3/s)	28.32	litres per second (l/s)
	28.32	cubic decimetres per second (dm^3/s)
	.02832	cubic metres per second (m^3/s)
gallons per minute (gpm)	.06309	litres per second (l/s)
	.06309	cubic decimetres per second (dm^3/s)
	6.309×10^{-5}	cubic metres per second (m^3/s)
million gallons per day (mgd)	43.81	cubic decimetres per second (dm^3/s)
	.04381	cubic metres per second (m^3/s)
	Mass	
tons (short)	.9072	tonnes (t)

*The unit hectare is approved for use with the International System (SI) for a limited time. See NBS Special Bulletin 330, p.15, 1972 edition.

**The unit litre is accepted for use with the International System (SI). See NBS Special Bulletin 330, p. 13, 1972 edition.

SECTION 1. SURFACE-WATER RECORDS

01368000 Wallkill River near Unionville, N. Y.

LOCATION.--Lat 41°15'36", long 74°32'56", Sussex County, New Jersey, on right bank on downstream side of bridge on Road, 0.6 mi (1.0 km) upstream from small tributary, 2.0 mi (3.2 km) south of the New York-New Jersey State line, and 3.0 mi (4.8 km) south of Unionville.

DRAINAGE AREA.--140 mi² (363 km²).

PERIOD OF RECORD.--September 1937 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 390 ft (119 m), from topographic map. Prior to Nov. 16, 1949, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--38 years, 215 ft³/s (6.089 m³/s), 20.86 in/yr (529.8 mm/yr).

EXTREMES.--Current year: Maximum discharge, 1,640 ft³/s (46.4 m³/s) Feb. 26 (gage height, 8.60 ft or 2.621 m); minimum, 36 ft³/s (1.02 m³/s) July 12, 13 (gage height, 3.15 ft or 0.960 m).

Period of record: Maximum discharge, 6,880 ft³/s (195 m³/s) Aug. 19, 1955 (gage height, 13.35 ft or 4.069 m); minimum daily, 4.2 ft³/s (0.12 m³/s) Aug. 8-10, 1966.

REMARKS.--Records fair, except those above 600 ft³/s (17 m³/s), which are poor. Water diverted from Morris Lake, upstream from station, by the Newton Water and Sewer Authority for municipal use. After use, the water is released into the Paulins Kill (Delaware River basin); records furnished by the Delaware River Basin Commission (sta 01367630). Records of water quality for the current year are published in Section 2 of this report.

REVISIONS.--WRD-NY 1966: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	347	186	94	209	392	851	342	163	190	91	150	106
2	226	183	240	241	340	561	290	197	196	69	129	83
3	173	100	502	196	299	418	475	217	139	59	113	74
4	146	96	507	186	250	337	1040	199	139	56	106	64
5	131	103	370	182	250	308	1270	308	133	47	137	59
6	120	115	273	163	260	290	1080	273	295	44	133	59
7	110	110	226	171	275	280	772	358	394	44	180	59
8	102	100	380	179	240	278	516	363	295	42	180	54
9	93	90	706	328	200	234	407	284	211	40	142	112
10	88	83	845	600	180	211	381	236	167	40	112	98
11	83	78	763	631	160	211	317	211	137	40	98	71
12	78	81	535	595	140	220	288	213	140	38	90	72
13	80	299	415	573	150	269	263	308	232	179	85	151
14	81	378	356	612	205	252	243	349	194	598	86	124
15	80	297	312	500	196	228	228	292	140	1230	85	83
16	171	232	308	400	190	238	228	252	118	1510	75	68
17	390	186	459	300	211	254	215	245	135	1320	90	64
18	324	167	475	270	267	241	197	209	129	1040	88	63
19	226	150	394	400	354	260	201	192	108	631	78	69
20	171	150	321	370	401	694	203	177	163	354	67	106
21	142	199	288	330	370	1030	185	159	148	530	60	106
22	126	201	271	300	354	1110	169	148	103	634	59	100
23	120	163	249	280	431	915	157	137	85	530	61	163
24	117	146	234	330	736	637	177	126	77	347	69	477
25	113	144	271	366	1280	569	252	115	71	390	140	958
26	124	140	344	612	1600	486	292	106	67	479	184	1340
27	122	120	286	662	1430	392	254	103	63	446	137	1420
28	113	118	247	521	1150	328	199	98	71	340	98	1240
29	110	113	224	477	---	310	175	86	135	256	76	926
30	106	100	213	542	---	361	165	95	127	205	100	495
31	108	---	205	473	---	413	---	184	---	171	151	---
TOTAL	4521	4468	11333	11999	12311	13166	10952	6403	4600	11798	3357	8862
MEAN	146	149	366	387	440	425	365	207	153	381	108	295
MAX	390	378	845	662	1600	1110	1270	363	394	1510	184	1420
MIN	78	78	94	163	140	211	157	86	63	38	59	54
CFSM	1.04	1.06	2.61	2.76	3.14	3.04	2.61	1.48	1.09	2.72	.77	2.11
IN.	1.20	1.19	3.01	3.19	3.27	3.50	2.91	1.70	1.22	3.13	.89	2.35

CAL YR 1974 TOTAL 88792 MEAN 243 MAX 865 MIN 20 CFSM 1.74 IN 23.58
WTR YR 1975 TOTAL 103770 MEAN 284 MAX 1600 MIN 38 CFSM 2.03 IN 27.57

PEAK DISCHARGE (BASE, 1,200 CFS)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
2-26	1215	8.60	1,640	7-16	0815	8.49	1,580
4-05	0715	7.89	1,290	9-27	1315	8.24	1,420

HACKENSACK RIVER BASIN

01376800 Hackensack River at West Nyack, N. Y.

LOCATION.--Lat 41°05'44", long 73°57'52", Rockland County, on right bank 20 ft (6 m) downstream from Penn Central Transportation Company railroad bridge at West Nyack, 1,000 ft (305 m) upstream from State Highway 59, and 1.0 mi (1.6 km) downstream from De Forest Lake.

DRAINAGE AREA.--29.4 mi² (76.1 km²).

PERIOD OF RECORD.--December 1958 to current year.

GAGE.--Water-stage recorder and stop-log control. Datum of gage is 53.50 ft (16.307 m) above mean sea level (levels by Hackensack Water Co.).

EXTREMES.--Current year: Maximum discharge, 920 ft³/s (26.1 m³/s) Sept. 27 (gage height, 8.85 ft or 2.697 m); minimum, 13 ft³/s (0.37 m³/s) June 21 (gage height, 2.62 ft or 0.799 m).
Period of record: Maximum discharge, 1,550 ft³/s (43.9 m³/s) Feb. 3, 1973 (gage height, 9.38 ft or 2.859 m, from floodmarks), from rating curve extended above 840 ft³/s (23.8 m³/s); minimum daily, 2.6 ft³/s (0.074 m³/s) June 12, 1965, Sept. 25, 26, 30, 1966; minimum gage height, 1.70 ft (0.518 m) Oct. 22, 1960.

REMARKS.--Records fair below 80 ft³/s (2.27 m³/s) and poor above. Flow regulated by De Forest Lake (see Hackensack River Basin, reservoirs in). Diversion from gaging station pool for municipal supply for village of Nyack (see Hackensack River Basin, reservoirs in). Discharge given for this station represents the flow of Hackensack River downstream from this diversion.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	20	22	23	43	67	69	64	30	26	18	19	22
2	20	22	36	47	50	50	58	36	21	17	20	22
3	20	22	23	38	46	42	268	38	22	22	23	22
4	20	22	20	36	42	43	263	42	22	20	28	21
5	20	23	20	34	48	40	73	61	22	20	30	21
6	19	23	19	32	51	41	70	52	55	20	32	22
7	19	23	20	49	52	42	62	176	54	19	31	22
8	19	22	59	50	49	52	58	99	47	20	28	21
9	19	21	29	112	46	45	52	25	34	23	25	21
10	18	22	22	127	41	34	47	28	23	22	23	21
11	18	23	21	103	38	36	46	30	22	22	22	22
12	18	23	21	93	41	39	44	30	47	22	22	24
13	18	29	21	129	37	58	41	107	160	34	22	23
14	18	23	21	154	30	58	37	169	74	43	22	22
15	19	22	20	114	30	62	38	65	50	49	22	22
16	41	22	41	86	33	55	42	59	41	94	24	21
17	22	21	99	66	40	55	38	54	35	49	23	21
18	19	22	93	67	59	50	31	47	26	34	22	21
19	19	21	73	156	127	104	31	43	23	23	23	25
20	20	22	62	241	178	445	31	36	23	22	22	23
21	21	24	54	163	101	284	32	30	22	38	22	23
22	21	22	49	54	58	91	24	23	21	35	22	22
23	21	21	42	43	38	118	23	22	18	25	21	43
24	21	21	39	48	200	98	40	23	18	22	25	67
25	21	21	54	104	308	102	64	25	20	81	22	412
26	21	21	62	269	188	80	71	20	18	88	25	577
27	21	21	50	81	74	58	55	19	18	38	22	773
28	21	24	45	62	70	41	42	19	18	26	22	364
29	21	25	41	157	---	34	36	19	19	22	22	212
30	21	24	39	122	---	61	32	23	19	20	27	77
31	22	---	35	86	---	73	---	24	---	20	23	---
TOTAL	638	674	1253	2966	2142	2460	1813	1474	1018	1008	736	3009
MEAN	20.6	22.5	40.4	95.7	76.5	79.4	60.4	47.5	33.9	32.5	23.7	100
MAX	41	29	99	269	308	445	268	176	160	94	32	773
MIN	18	21	19	32	30	34	23	19	18	17	19	21

CAL YR 1974 TOTAL 17237 MEAN 47.2 MAX 299 MIN 18
WTR YR 1975 TOTAL 19191 MEAN 52.6 MAX 773 MIN 17

01377000 Hackensack River at Rivervale, N. J.

LOCATION.--Lat 40°59'55", long 73°59'27", Bergen County, on right bank at Westwood Avenue in Rivervale, 1.5 mi (2.4 km) upstream from Pascack Brook, 4.6 mi (7.4 km) upstream from Oradell Dam, and 27.2 mi (43.8 km) upstream from mouth.

DRAINAGE AREA.--58.0 mi² (150.2 km²).

PERIOD OF RECORD.--October 1941 to current year.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 22.51 ft (6.861 m) above mean sea level.

AVERAGE DISCHARGE.--34 years, 89.5 ft³/s (2.535 m³/s), unadjusted.

EXTREMES.--Current year: Maximum discharge, 1,740 ft³/s (49.4 m³/s) Sept. 27 (gage height, 7.15 ft or 2.179 m); minimum, 12 ft³/s (0.34 m³/s) Oct. 7, Dec. 23-25 (gage height, 1.53 ft or 0.466 m).
Period of record: Maximum discharge, 1,740 ft³/s (49.4 m³/s) Sept. 27, 1975 (gage height, 7.15 ft or 2.179 m); no flow part of Jan. 16, 1970.

REMARKS.--Records excellent. Flow regulated by Lake De Forest and Lake Tappan (see Hackensack River Basin, reservoirs in). Diversions at Lake De Forest and West Nyack, N.Y., for municipal water supply (see Hackensack River Basin, diversions). Records of water quality for the current year are published in Section 2 of this report.

COOPERATION.--Gage-height record collected in cooperation with Hackensack Water Co.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	18	102	100	106	67	100	94	45	102	22	23	38
2	16	102	113	69	71	87	87	71	44	19	24	38
3	16	102	23	28	61	61	101	58	28	19	24	36
4	16	102	42	28	65	59	301	81	30	19	30	36
5	16	102	111	28	98	54	193	102	29	33	50	36
6	14	102	108	65	85	59	98	71	159	126	44	36
7	81	100	108	115	94	65	89	173	100	104	133	36
8	138	100	151	108	73	79	81	173	65	77	42	45
9	138	100	122	94	63	56	73	58	49	77	38	102
10	138	98	113	22	58	45	69	41	35	77	33	124
11	128	98	111	22	52	63	67	44	28	96	33	122
12	79	98	75	19	87	58	63	44	140	122	32	133
13	81	111	28	41	54	106	63	144	243	135	28	126
14	81	98	26	28	50	96	59	201	147	113	19	122
15	71	98	25	22	47	98	56	126	77	45	22	102
16	108	96	61	20	52	98	59	117	59	30	44	85
17	28	94	41	19	81	85	61	83	67	193	42	83
18	17	94	17	47	140	71	56	67	39	81	33	83
19	17	94	15	30	149	100	56	63	41	42	24	81
20	18	91	14	23	191	485	54	52	45	36	22	65
21	58	98	14	23	161	494	52	49	23	91	61	71
22	87	94	13	22	106	214	49	44	22	56	104	65
23	85	91	12	22	117	151	45	38	20	41	106	104
24	85	91	12	22	228	142	77	29	32	28	108	135
25	85	91	19	52	357	151	138	38	33	193	113	122
26	87	96	15	26	280	126	147	25	25	183	50	473
27	100	102	13	22	147	85	140	26	22	81	39	1450
28	100	102	58	24	108	69	131	25	32	36	36	840
29	102	100	104	38	---	61	126	19	56	36	36	349
30	104	100	104	23	---	115	106	22	39	26	45	178
31	104	---	102	22	---	113	---	44	---	25	38	---
TOTAL	2216	2947	1862	1230	3134	3846	2951	2163	1831	2262	1476	5316
MEAN	71.5	98.2	60.1	39.7	112	118	98.4	69.8	61.0	73.0	47.6	177
MAX	138	111	151	115	357	494	301	201	243	193	133	1450
MIN	14	91	12	19	47	45	45	19	20	19	19	36

CAL YR 1974 TOTAL 29151 MEAN 79.9 MAX 361 MIN 12
WTR YR 1975 TOTAL 31834 MEAN 85.0 MAX 1450 MIN 12

01377500 Pascack Brook at Westwood, N. J.

LOCATION.--Lat 40°59'33", long 74°01'19", Bergen County, on right bank 75 ft (23 m) upstream from Harrington Avenue in Westwood, 500 ft (150 m) downstream from Musquapsink Brook, and 2.3 mi (3.7 km) upstream from mouth.

DRAINAGE AREA.--29.6 mi² (76.7 km²).

PERIOD OF RECORD.--October 1934 to current year.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 28.62 ft (8.723 m) above mean sea level.

AVERAGE DISCHARGE.--41 years, 54.1 ft³/s (1.532 m³/s), unadjusted.

EXTREMES.--Current year: Maximum discharge, 1,050 ft³/s (29.7 m³/s) Sept. 27 (gage height, 4.86 ft or 1.481 m); minimum, 22 ft³/s (0.62 m³/s) Sept. 17 (gage height, 1.59 ft or 0.485 m).
Period of record: Maximum discharge, 2,440 ft³/s (69.1 m³/s) Sept. 12, 1971 (gage height, 7.57 ft or 2.307 m); minimum, 5.6 ft³/s (0.16 m³/s) June 29, 1965.

REMARKS.--Records good. Flow regulated by Woodcliff Lake 3.0 mi (4.8 km) above station (see Hackensack River Basin, reservoirs in). Water diverted for municipal supply by Spring Valley Water Works and Supply Co., by pumpage from well fields in headwater area of Pascack Brook in vicinity of Spring Valley, N.Y., and by Park Ridge Water Department by pumping from wells above Woodcliff Lake probably reduces flow past this station.

COOPERATION.--Gage-height record collected in cooperation with Hackensack Water Co.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	49	30	35	53	56	59	55	38	96	27	49	37
2	48	31	88	51	52	56	49	45	46	26	48	37
3	48	32	41	50	49	53	250	43	39	25	48	37
4	47	31	35	50	46	50	146	49	37	25	49	36
5	42	31	38	50	46	48	70	65	40	25	52	36
6	39	31	38	48	49	48	59	53	159	43	58	36
7	37	30	37	60	49	49	54	103	92	46	75	36
8	43	29	110	52	46	49	50	71	54	28	55	35
9	39	28	57	88	44	47	44	50	41	27	48	28
10	39	27	43	60	42	47	41	43	35	27	47	23
11	41	26	44	58	45	47	42	41	32	34	46	22
12	39	31	44	56	48	55	41	43	97	47	46	49
13	38	45	44	97	45	53	39	126	182	138	45	41
14	35	31	47	95	45	50	38	164	78	387	44	24
15	36	30	44	74	45	56	39	70	54	420	69	23
16	112	29	93	69	47	52	40	77	46	160	95	23
17	58	29	75	66	52	49	46	63	43	166	41	22
18	45	31	49	91	64	62	44	52	39	75	38	22
19	42	44	48	120	65	137	45	44	39	58	37	38
20	41	45	49	96	60	261	46	40	41	55	36	30
21	37	41	47	73	56	140	40	41	32	76	36	43
22	39	41	35	67	53	75	38	39	29	56	39	28
23	41	37	41	65	63	69	36	39	28	51	36	128
24	42	36	50	64	154	65	56	33	27	50	69	188
25	41	35	59	102	203	71	87	31	27	272	135	491
26	41	38	52	137	89	61	81	31	27	140	78	437
27	37	37	52	73	69	53	59	28	27	71	51	760
28	36	36	50	59	62	48	43	28	27	58	39	175
29	36	36	44	83	---	48	38	27	39	53	41	99
30	36	35	45	71	---	73	37	30	36	51	53	78
31	30	---	47	60	---	68	---	35	---	50	44	---
TOTAL	1334	1013	1581	2238	1744	2099	1753	1642	1589	2767	1647	3062
MEAN	43	34	51	72	62	68	58	53	53	89	53	102
MAX	112	45	110	137	203	261	250	164	182	420	135	760
MIN	30	26	35	48	42	47	36	27	27	25	36	22

CAL YR 1974 TOTAL 21339 MEAN 58.0 MAX 307 MIN 26
WTR YR 1975 TOTAL 22469 MEAN 62.0 MAX 760 MIN 22

PEAK DISCHARGE (BASE, 400 CFS)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
4-03	1730	3.60	569	8-24	2215	3.18	407
7-14	2245	4.31	825	9-27	0800	4.86	1,050
7-25	0445	3.30	451				

01378500 Hackensack River at New Milford, N. J.

LOCATION.--Lat 40°56'52", long 74°01'34", Bergen County, on right bank upstream from two masonry dams and two lift gates at pumping plant of Hackensack Water Co., New Milford, 4.0 mi (6.4 km) downstream from Pascack Brook, and 21.8 mi (35.1 km) upstream from mouth.

DRAINAGE AREA.--113 mi^2 (293 km^2).

PERIOD OF RECORD.--October 1921 to current year. Monthly discharge only for October 1921, published in WSP 1302.

GAGE.--Water-stage recorder above south dam. Datum of gage is 6.25 ft (1.905 m) above mean sea level. October 1921 to Nov. 23, 1923, nonrecording gage and Nov. 23, 1923, to Sept. 25, 1934, water-stage recorder, at same site at datum 0.05 ft (0.015 m) lower.

AVERAGE DISCHARGE.--54 years, 107 ft^3/s (3.030 m^3/s), unadjusted.

EXTREMES.--Current year: Maximum discharge, 4,800 ft^3/s (136 m^3/s) Sept. 27 (gage height, 7.54 ft or 2.298 m); no flow during part or all of summer months.

Period of record: Maximum discharge, 4,800 ft^3/s (136 m^3/s) Sept. 27, 1975 (gage height, 7.54 ft or 2.298 m); no flow on many days during most years.

REMARKS.--Records good. Records given herein represent flow over waste weirs only. Flow regulated by Lake De Forest, Lake Tappan, Woodcliff Lake 9.0 mi (14.5 km) upstream from station, and Oradell Reservoir 0.6 mi (1.0 km) upstream from station (see Hackensack River Basin, reservoirs in). Water diverted at gage, Lake De Forest, and West Nyack, N.Y., for municipal supply (see Hackensack River Basin, diversion). Records of water quality for the current year are published in Section 2 of this report.

COOPERATION.-Gage-height record collected in cooperation with Hackensack Water Co.

REVISIONS (WATER YEARS).--WSP 601: Drainage area. WSP 711: 1927-28(M). WRD-NJ 1970: 1969.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	22	18	18	17	17	74	57	17	0	0		0
2	18	18	22	18	17	50	57	18	0	0		0
3	17	17	20	20	17	38	758	18	0	0		0
4	16	20	22	20	18	22	806	17	0	0		0
5	17	18	20	18	20	20	201	18	0	0		0
6	17	18	20	17	25	18	43	18	0	0		0
7	16	18	20	17	67	17	231	18	0	0		0
8	16	18	22	18	40	18	16	18	0	0		0
9	18	18	22	18	18	18	16	20	0	0		0
10	17	18	20	17	18	17	17	20	0	0		0
11	17	20	20	17	16	18	20	22	0	0		0
12	18	18	18	16	20	18	18	18	30	0		0
13	18	22	20	20	18	18	20	211	442	0		0
14	17	22	18	18	17	57	18	508	135	0		0
15	17	20	20	18	18	29	20	131	57	0		0
16	20	17	27	17	17	89	22	173	24	0		0
17	16	20	20	18	17	50	18	74	18	372		0
18	17	22	20	18	127	29	18	27	15	241		0
19	17	18	22	18	231	362	17	27	18	20		0
20	16	20	17	20	221	1200	17	18	19	17		0
21	17	20	18	16	150	729	17	22	0	22		0
22	18	17	20	17	89	261	18	22	0	22		0
23	17	18	18	16	159	173	20	22	0	12		0
24	16	20	18	18	589	178	17	17	0	0		0
25	17	18	20	18	758	191	20	17	0	307		690
26	18	20	18	17	362	107	18	17	0	392		1310
27	18	18	20	18	196	64	18	17	0	534		4010
28	17	16	18	17	74	36	20	17	0	20		1630
29	17	18	18	182	---	25	18	0	0	16		554
30	20	20	20	138	---	231	20	0	0	9.3		104
31	18	---	20	18	---	96	---	0	---	0		---
TOTAL	540	565	616	835	3336	4253	2576	1542	758	1984	0	8298
MEAN	17.4	18.8	19.9	26.9	119	137	85.9	49.7	25.3	64.0	0	277
MAX	22	22	27	182	758	1200	806	508	442	534	0	4010
MIN	16	16	17	16	16	17	16	0	0	0	0	0

CAL YR 1974 TOTAL 22903.00 MEAN 62.7 MAX 1060 MIN 0
WTR YR 1975 TOTAL 25303.30 MEAN 69.3 MAX 4010 MIN 0

Reservoirs in Hackensack River basin

01376700 DE FOREST LAKE.--Lat 41°06', long 74°57', Rockland County, N.Y., at dam on Hackensack River, 0.85 mi (1.37 km) north of West Nyack, N.Y. Drainage area, 26.6 mi^2 (68.9 km^2). Period of record, February 1956 to current year in reports of Geological Survey. Bristol recording water-level gage. Datum of gage is at mean sea level.

Reservoir is formed by earthfill dam with sheet piling cutoff and concrete spillway; dam completed and storage began in February 1956. Total capacity at crest of dam (elevation, 80.00 ft or 24 m), 4,068,000,000 gal (15.40 hm^3). Crest of dam topped by two 50-foot (15.24 m) Bascule gates 5 ft (1.5 m) high. Flow regulated by 12-inch (0.3 m) Howell-Bunger valve at elevation 59.25 ft (18.06 m) and 24-inch Howell-Bunger valve at elevation 61.25 ft (18.67 m). Reservoir used for storage and water released by Hackensack Water Co., for public water supply. Record of elevation and contents furnished by Hackensack Water Co.

01376950 LAKE TAPPAN.--Lat 41°01'05", long 74°00'05", Bergen County, at dam on Hackensack River, 0.50 mi (0.80 km) north of Old Tappan. Drainage area, about 49 mi^2 (127 km^2). Period of record, October 1966 to current year in reports of Geological Survey. Water-stage recorder. Datum of gage is at mean sea level.

Reservoir is formed by earthfill dam, completed in 1966. Capacity at spillway level (elevation, 55.00 ft or 17 m), 3,378,000,000 gal (12.79 hm^3). Flow regulated by four Bascule gates and one sluice gate. Water is released by Hackensack Water Co., for public water supply. Record of elevation and contents furnished by Hackensack Water Co.

01377450 WOODCLIFF LAKE.--Lat 41°01', long 74°03', Bergen County, at dam on Pascack Brook, 0.75 mi (1.21 km) north of Hillsdale. Drainage area, 19.4 mi^2 (50.2 km^2). Period of record, December 1929 to current year in reports of Geological Survey. Monthend contents only prior to September 1953, published in WSP 1302, 1722. Water-stage recorder. Datum of gage is at mean sea level.

Reservoir is formed by earthfill dam, completed about 1905. Capacity at spillway level (elevation, 94.33 ft or 28.75 m), 835,000,000 gal (3.160 hm^3). Flow is regulated by flashboards and one 36-inch (0.9 m) gate in center of dam. Water is released for diversion at New Milford by Hackensack Water Co., for municipal supply. Record of elevation and contents furnished by Hackensack Water Co.

01378480 ORADELL RESERVOIR.--Lat 40°57', long 74°02', Bergen County, at dam on Hackensack River at Oradell. Drainage area, 113 mi^2 (293 km^2). Period of record, December 1922 to current year in reports of Geological Survey. Monthend contents only prior to September 1953, published in WSP 1302, 1722. Water-stage recorder. Datum of gage is at mean sea level.

Reservoir is formed by hollow concrete dam, completed in 1922. Capacity at spillway level (elevation, 22.66 ft or 6.91 m), 2,850,000,000 gal (10.79 hm^3). Flow regulated by seven sluice gates (7 by 9 ft or 2.1 by 2.7 m). Water is released for diversion by Hackensack Water Co., 1 mi (2 km) downstream from dam for municipal supply. Record of elevation and contents furnished by Hackensack Water Co.

MONTHEND ELEVATION AND CONTENTS, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

Date	Elevation (feet)	Contents (million gallons)	Change in contents (equivalent in cfs)	Elevation (feet)	Contents (million gallons)	Change in contents (equivalent in cfs)
	01376700 De Forest Lake†			01376950 Lake Tappan†		
Sept. 30	84.07	5,346	-	52.85	2,803	-
Oct. 31	83.88	5,286	-3.0	50.24	2,056	-37.3
Nov. 30	83.45	5,151	-7.0	45.35	879	-60.7
Dec. 31	85.23	5,719	+28.3	47.78	1,427	+27.3
CAL YR 1974	-	-	+0.3	-	-	-3.6
Jan. 31	85.25	5,726	+0.3	55.00	3,485	+102.7
Feb. 28	85.19	5,705	-1.2	55.02	3,492	+0.4
Mar. 31	85.28	5,737	+1.6	55.02	3,492	0
Apr. 30	85.10	5,673	-3.3	54.99	3,482	-0.5
May 31	84.89	5,603	-3.5	55.06	3,505	+1.1
June 30	84.79	5,572	-1.6	55.00	3,485	-1.0
July 31	85.01	5,642	+3.5	55.00	3,485	0
Aug. 31	84.46	5,468	-8.7	54.49	3,320	-8.2
Sept. 30	85.18	5,702	+12.1	55.01	3,488	+8.7
WTR YR 1975	-	-	+1.5	-	-	+2.9
	01377450 Woodcliff Lake†			01378480 Oradell Reservoir†		
Sept. 30	91.03	662	-	19.43	2,189	-
Oct. 31	89.53	585	-3.8	17.82	1,898	-14.5
Nov. 30	87.43	483	-5.3	18.25	1,973	+3.9
Dec. 31	93.33	782	+14.9	20.52	2,406	+21.6
CAL YR 1974	-	-	-0.5	-	-	-2.3
Jan. 31	95.03	873	+4.5	22.37	2,788	+19.1
Feb. 28	94.73	856	-0.9	22.55	2,827	+2.2
Mar. 31	95.03	873	+0.8	22.75	2,871	+2.2
Apr. 30	94.68	853	-1.0	21.33	2,571	-15.5
May 31	94.63	851	-0.1	20.18	2,336	-11.7
June 30	94.20	828	-1.2	20.08	2,316	-1.0
July 31	93.54	793	-1.7	21.04	2,664	+17.4
Aug. 31	89.98	608	-9.2	19.24	2,286	-18.9
Sept. 30	94.85	863	+13.1	23.00	3,120	+43.0
WTR YR 1975	-	-	+0.9	-	-	+3.9

† Elevation at 0800 on first day of following month.

Diversions from Hackensack River basin

01376699 Spring Valley Water Co., diverts water at De Forest Lake for public supply in Rockland County, N.Y. Records furnished by Spring Valley Water Co.

01376810 Village of Nyack, N.Y., diverts water from Hackensack River 100 ft (30.5 m) downstream from gaging station on Hackensack River at West Nyack, N.Y. (sta 01376800) for municipal supply. Records furnished by Board of Water Commissioners of Nyack, N.Y.

01378490 Hackensack Water Co., diverts water for municipal supply from Oradell Reservoir at Haworth pumping station 2.0 mi (3.2 km) upstream from gaging station on Hackensack River at New Milford and from Hackensack River about 50 ft (15.2 m) above gaging station on Hackensack River at New Milford, N.J. (sta 01378500). Records furnished by Hackensack Water Co.

01378520 Hackensack Water Co., diverts water from Hirshfeld Brook, a tributary of the Hackensack River, below the gaging station on Hackensack River at New Milford, N.J., for municipal supply. Records furnished by Hackensack Water Co.

DIVERSIONS, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

Month	Spring Valley Water Co.	West Nyack, N.Y.	Hackensack Water Co.
October...........................	4.55	2.32	142
November..........................	4.50	2.25	136
December..........................	0.41	2.13	134
CAL YR 1974.....................	4.43	2.45	138
January...........................	0	2.17	134
February..........................	0	2.17	133
March.............................	0	2.31	133
April.............................	0	2.21	139
May...............................	5.52	2.46	154
June..............................	9.13	2.71	155
July..............................	9.82	3.02	161
August............................	9.06	2.94	161
September.........................	6.00	2.61	150
WTR YR 1975.....................	4.08	2.42	144

Tabulation of diversion by pumpage from sources other than the Hackensack River into Oradell Reservoir. These figures are included in diversions from Hackensack River as noted above.

DIVERSIONS, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

Month	Sparkill Creek (Hudson River Basin)	Hirshfeld Brook (Hackensack River Basin)	Saddle River (Passaic River Basin)	Wells to Surface Supply
October..........	0	0	7.92	0
November.........	0	0	3.18	0
December.........	0	0	7.52	0
CAL YR 1974....	0	0.53	5.67	0.15
January..........	0	0	8.59	0
February.........	0	0	0	0
March............	0	0	0	0
April............	0	0	0.94	0
May..............	0	0.09	1.36	0
June.............	0	0	0.06	0
July.............	0	0	1.70	0
August...........	0	0	0.82	0
September........	0	0.06	0.79	0
WTR YR 1975....	0	0.01	2.89	0

01378690 Passaic River near Bernardsville, N. J.

LOCATION.--Lat 40°44'03", long 74°32'26", Somerset County, on right bank on downstream wingwall of bridge on U.S. Route 202, 1.8 mi (2.9 km) northeast of Bernardsville, and 3.0 mi (4.8 km) upstream from Great Brook.

DRAINAGE AREA.--8.83 mi^2 (22.87 km^2).

PERIOD OF RECORD.--October 1967 to current year.

GAGE.--Water-stage recorder. Datum of gage is 238.07 ft (72.564 m) above mean sea level. Prior to May 4, 1972, at datum 10.00 ft (3.048 m) higher.

AVERAGE DISCHARGE.--8 years, 18.9 ft^3/s (0.535 m^3/s), 29.07 in/yr (738 mm/yr).

EXTREMES.--Current year: Maximum discharge, 1,490 ft^3/s (42.2 m^3/s) July 21 (gage height, 15.25 ft or 4.648 m, from crest-stage gage); minimum, 4.1 ft^3/s (0.12 m^3/s) Oct. 15, (gage height, 9.69 ft or 2.954 m).

Period of record: Maximum discharge, 3,850 ft^3/s (109 m^3/s) Aug. 28, 1971 (gage height, 18.56 ft or 5.657 m, present datum) from rating curve extended above 600 ft^3/s (17 m^3/s) on the basis of contracted-opening and flow-over-road measurement of peak flow; minimum, 1.1 ft^3/s (0.031 m^3/s) Dec. 7, 1970 (gage height, 11.10 ft or 3.383 m), present datum.

REMARKS.--Records good except those for period of no gage-height record, which are fair. The stage-discharge relationship may be affected at high stages by backwater from Osborne Pond, approximately 0.8 mi (1.3 km) downstream.

REVISIONS (WATER YEARS).--WRD-NJ 1971: 1970(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.0	5.7	7.5	15	20	26	23	16	63	14	23	13
2	6.2	5.7	79	14	20	24	26	18	19	13	21	12
3	5.7	5.7	17	11	19	23	46	17	16	13	19	11
4	5.5	6.0	11	11	18	21	28	50	14	13	18	10
5	5.5	6.2	9.3	11	19	20	23	43	20	12	18	9.2
6	5.3	6.5	9.3	10	21	20	22	24	85	13	19	8.8
7	5.3	5.7	9.0	23	21	20	21	30	35	14	21	8.4
8	5.0	5.7	80	15	18	20	20	23	22	12	19	8.1
9	5.0	5.5	26	79	17	17	20	20	20	12	18	8.0
10	5.0	5.5	17	23	15	18	19	19	18	14	17	8.1
11	4.8	5.3	14	24	16	18	19	19	17	11	16	8.1
12	4.8	6.7	13	19	16	28	18	18	82	11	15	15
13	4.5	38	12	37	18	25	18	42	86	100	14	14
14	4.8	9.9	12	25	15	21	17	32	33	103	13	8.4
15	4.8	9.6	11	19	15	23	18	21	28	40	12	7.9
16	41	8.5	64	18	17	23	19	34	27	37	14	7.9
17	18	7.7	32	17	22	22	17	22	25	35	14	7.9
18	8.8	7.7	18	38	40	19	17	20	23	23	13	7.6
19	7.7	7.5	16	39	36	106	18	19	21	20	12	12
20	7.2	8.5	15	36	24	102	16	18	22	25	11	11
21	7.2	11	14	22	20	42	15	17	18	270	10	21
22	7.2	8.2	14	22	18	37	14	17	17	100	9.8	12
23	7.2	7.5	13	21	29	33	14	16	17	47	9.2	70
24	7.0	7.5	13	20	107	37	28	15	20	41	10	176
25	6.7	7.7	17	44	61	35	34	19	22	180	27	143
26	7.2	7.7	14	34	33	28	32	15	17	100	75	66
27	6.7	7.0	12	23	29	25	18	14	15	60	25	79
28	6.2	7.5	12	21	27	24	17	13	20	45	18	35
29	6.5	7.0	11	38	---	25	16	12	24	40	16	29
30	6.2	6.7	12	25	---	37	15	20	17	32	14	26
31	6.2	---	11	22	---	25	---	26	---	30	13	---
TOTAL	236.2	245.4	615.1	776	731	944	628	697	863	1540	554.0	861.4
MEAN	7.62	8.18	19.8	25.0	26.1	30.5	20.9	22.5	28.8	49.7	17.9	28.7
MAX	41	38	80	79	107	106	46	50	86	270	75	176
MIN	4.5	5.3	7.5	10	15	17	14	12	14	11	9.2	7.6
CFSM	.86	.93	2.24	2.83	2.96	3.45	2.37	2.55	3.26	5.63	2.03	3.25
IN.	1.00	1.03	2.59	3.27	3.08	3.98	2.65	2.94	3.64	6.49	2.33	3.63

CAL YR 1974 TOTAL 5951.0 MEAN 16.3 MAX 87 MIN 3.6 CFSM 1.85 IN 25.07
WTR YR 1975 TOTAL 8691.1 MEAN 23.8 MAX 270 MIN 4.5 CFSM 2.70 IN 36.61

PEAK DISCHARGE (BASE, 200 CPS)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
2-24	2115	11.78	202	7-21	unknown	15.25	1,490
3-19	2100	12.60	363	7-25	unknown	14.19	942
7-13	1300	13.23	543	9-24	2100	12.97	457

NOTE.--No gage-height record July 19 to Sept. 9.

01379000 Passaic River near Millington, N. J.

LOCATION.--Lat 40°40'48", long 74°31'45", Somerset County, on right bank 200 ft (61.0 m) downstream from Davis Bridge, 0.7 mi (1.1 km) northwest of Millington, and 1.8 mi (2.9 km) downstream from Black Brook.

DRAINAGE AREA.--55.4 mi^2 (143.5 km^2).

PERIOD OF RECORD.--November 1903 to June 1906 (published as "at Millington"), October 1921 to current year. Monthly discharge only for some periods, published in WSP 1302.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 215.60 ft (65.715 m) above mean sea level (New Jersey Geological Survey bench mark). Nov. 25, 1903, to July 15, 1906, nonrecording gage at bridge 0.8 mi (1.3 km) downstream at different datum. Nov. 10, 1921, to Sept. 1, 1923, nonrecording gage at site 200 ft (60 m) downstream at present datum. Oct. 31, 1923, to July 3, 1925, nonrecording gage and concrete control at present site and datum.

AVERAGE DISCHARGE.--55 years (1904-5, 1921-75), 88.4 ft^3/s (2.503 m^3/s), 21.66 in/yr (550 mm/yr) adjusted for diversion since 1970.

EXTREMES.--Current year: Maximum discharge, 1,340 ft^3/s (37.9 m^3/s) Sept. 27 (gage height, 8.81 ft or 2.685 m); minimum daily, 17 ft^3/s (0.48 m^3/s) Oct. 17.

Period of record: Maximum discharge, 2,000 ft^3/s (56.6 m^3/s) Jan. 9, 1905 (gage height, 7.8 ft or 2.38 m, from graph based on gage readings, site and datum then in use) from rating curve extended above 1,400 ft^3/s (39.6 m^3/s) on basis of velocity-area study; maximum gage height, 9.73 ft (2.966 m) Aug. 29, 1971; minimum discharge, 0.2 ft^3/s (0.006 m^3/s) Sept. 12, 13, 1966 (gage height, 3.76 ft or 1.146 m).

REMARKS.--Records good except those for periods of no gage-height record, which are fair. Diversion from Osborn Pond by Commonwealth Water Co., Bernards Division, since June 24, 1903, for municipal supply (records given herein). Records of water quality for the current year are published in Section 2 of this report.

REVISIONS (WATER YEARS).--WSP 781: Drainage area. WSP 1552: 1905(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	140	26	27	53	160	200	124	64	185	46	103	41
2	90	26	193	66	133	160	100	67	232	41	83	34
3	70	26	299	53	110	120	108	70	180	37	67	28
4	58	27	249	52	79	90	172	103	130	37	59	25
5	35	27	202	51	61	75	120	289	83	33	65	24
6	30	32	159	48	73	62	91	250	255	31	59	23
7	28	27	116	104	98	62	87	226	347	45	87	24
8	25	27	186	124	87	64	75	197	309	34	80	22
9	23	24	378	218	94	58	68	160	257	34	69	21
10	21	23	331	320	77	50	59	116	203	48	58	19
11	20	22	267	281	59	54	68	82	140	43	50	18
12	19	26	208	246	43	70	58	74	142	43	42	23
13	18	114	161	224	40	160	49	127	381	206	36	56
14	17	140	124	256	46	145	43	206	395	584	33	30
15	50	115	98	211	47	135	42	195	324	790	30	26
16	170	95	149	169	49	145	47	183	262	804	38	26
17	220	71	357	125	75	140	44	179	202	769	45	24
18	180	56	335	115	152	115	42	131	148	584	39	22
19	120	44	283	225	228	180	40	108	114	416	33	29
20	88	39	222	277	247	450	41	91	98	292	28	39
21	70	57	171	240	215	530	33	79	85	642	24	47
22	50	55	119	202	180	520	30	67	70	633	23	85
23	39	47	84	164	167	430	30	60	60	532	22	166
24	36	43	68	143	320	350	64	53	59	418	26	503
25	34	41	68	166	554	290	164	51	67	502	114	1090
26	32	37	75	246	499	230	190	46	53	522	160	1220
27	31	31	64	227	383	160	162	43	49	423	134	1300
28	29	31	61	188	266	131	117	38	50	341	98	1190
29	28	30	53	191	---	100	88	32	71	260	72	954
30	27	27	51	234	---	106	74	36	57	196	63	667
31	27	---	46	203	---	140	---	73	---	142	53	---
TOTAL	1817	1386	5204	5422	4542	5522	2430	3504	5008	9528	1893	7776
MEAN	58.6	46.2	168	175	162	178	81.0	113	167	307	61.1	259
MAX	220	140	378	320	554	530	190	289	395	804	160	1300
MIN	17	22	27	48	40	50	30	32	49	31	22	18
(†)	2.0	2.0	2.0	2.1	1.9	1.9	1.9	2.2	2.4	2.2	2.2	2.0
MEAN‡	60.6	48.2	170	177	164	180	82.9	115	169	309	63.3	261
CFSM‡	1.09	.87	3.07	3.19	2.96	3.25	1.50	2.08	3.05	5.58	1.14	4.71
IN‡	1.26	.97	3.54	3.68	3.08	3.75	1.67	2.40	3.41	6.44	1.32	5.26

CAL YR 1974 TOTAL 36333.9 MEAN 99.5 MAX 466 MIN 4.1 MEAN‡ 102 CFSM‡ 1.84 IN‡ 24.93
WTR YR 1975 TOTAL 54032.0 MEAN 148 MAX 1300 MIN 17 MEAN‡ 150 CFSM‡ 2.71 IN‡ 36.78

PEAK DISCHARGE (BASE, 500 CFS)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
2-25	1100	6.89	575	7-21	1600	7.36	750
3-21	unknown	unknown	about 600	7-25	1845	6.97	601
7-16	2100	7.57	838	9-27	0015	8.81	1,340

† Diversion in cubic feet per second, from Osborn Pond for municipal supply. Records of diversion furnished by Commonwealth Water Co., Bernards Division.

‡ Adjusted for diversion.

NOTE.--No gage-height record Oct. 1-30 and Mar. 1-27.

01379500 Passaic River near Chatham, N. J.

LOCATION.--Lat 40°43'31", long 74°23'23", Morris County, on left bank 150 ft (46 m) downstream from Stanley Avenue Bridge in Chatham, and 3.0 mi (4.8 km) upstream from Canoe Brook.

DRAINAGE AREA.--100 mi² (259 km²).

PERIOD OF RECORD.--February 1903 to December 1911, October 1937 to current year. Monthly discharge only for some periods, published in WSP 1302.

GAGE.--Water-stage recorder and concrete control since Sept. 19, 1938. Datum of gage is 193.51 ft (58.982 m) above mean sea level. Prior to Dec. 31, 1911, nonrecording gage at bridge 150 ft (46 m) upstream at different datum.

AVERAGE DISCHARGE.--46 years (1903-11, 1937-75), 168 ft³/s (4.758 m³/s), 22.81 in/yr (579 mm/yr), adjusted for diversion since 1970.

EXTREMES.--Current year: Maximum discharge, 2,520 ft³/s (71.4 m³/s) Sept. 27 (gage height, 8.14 ft or 2.481 m); minimum, 31 ft³/s (0.88 m³/s) Oct. 14, 15, Feb. 12, Sept. 11 (gage height, 3.35 ft or 1.021 m).
Period of record: Maximum discharge, 3,380 ft³/s (95.7 m³/s) Aug. 2, 1973 (gage height, 9.36 ft or 2.853 m, from floodmark); minimum, 2.0 ft³/s (0.057 m³/s) on many days in May and June 1903, August and October 1905, September and October 1906, and Sept. 11, 1944.

REMARKS.--Records good except those from July 1 to September 7, which are fair. Diversion from Osborn Pond by Commonwealth Water Co., Bernards Division, since June 24, 1903, for municipal supply (records given herein). Records of water quality for the current year are published in Section 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	256	47	51	109	289	456	208	110	417	80	151	62
2	182	46	501	150	221	295	174	116	510	69	116	60
3	134	44	579	122	178	204	236	117	420	65	95	50
4	96	43	530	103	141	158	277	229	264	60	83	47
5	66	47	419	102	115	135	240	568	184	55	85	41
6	55	49	292	92	135	114	168	563	538	52	87	40
7	52	49	197	216	169	112	147	500	618	54	140	40
8	47	45	412	230	161	116	134	394	556	60	120	39
9	43	42	591	454	137	104	121	284	473	78	95	37
10	37	40	609	542	118	93	111	208	382	78	76	34
11	37	39	516	530	103	94	105	148	261	66	73	33
12	35	52	417	467	84	146	108	121	349	62	62	43
13	33	245	299	474	105	289	92	269	661	344	57	72
14	31	227	208	493	96	255	84	462	732	1050	51	63
15	31	178	199	425	86	243	80	383	661	1410	48	43
16	236	142	395	312	88	265	90	369	545	1270	47	41
17	409	114	645	225	116	253	86	351	433	1170	76	40
18	364	96	665	258	302	216	78	250	307	1100	63	38
19	239	80	554	461	448	357	78	181	199	949	57	56
20	176	74	450	520	473	814	76	148	188	740	47	62
21	133	100	336	473	422	964	68	126	139	571	43	67
22	100	102	225	384	332	910	59	113	107	949	40	100
23	75	83	152	294	324	788	55	99	91	972	38	389
24	67	72	176	241	665	631	130	88	97	854	43	787
25	64	69	131	313	845	511	362	111	175	1020	235	1380
26	63	65	141	437	901	396	388	88	113	886	289	1840
27	59	58	127	401	791	282	310	76	83	823	273	2120
28	54	56	114	326	624	210	213	68	80	700	154	1850
29	51	52	105	380	---	174	153	59	90	535	116	1660
30	49	49	97	442	---	220	124	62	109	359	95	1460
31	48	---	91	380	---	241	---	102	---	242	80	---
TOTAL	3300	2401	10136	10361	8469	10040	4533	6763	9782	16723	3035	12592
MEAN	106	80.0	327	334	302	324	151	218	326	539	97.9	420
MAX	409	245	665	542	901	964	388	568	732	1410	289	2120
MIN	31	39	51	92	84	93	55	59	80	52	38	33
(†)	2.0	2.0	2.0	2.1	1.9	1.9	1.9	2.2	2.4	2.2	2.2	2.0
MEAN‡	108	82.0	329	336	304	326	153	220	328	541	100	422
CFSM‡	1.08	.82	3.29	3.36	3.04	3.26	1.53	2.20	3.28	5.41	1.00	4.22
IN‡	1.25	.92	3.79	3.88	3.17	3.76	1.71	2.54	3.66	6.24	1.15	4.71

CAL YR 1974 TOTAL 69012 MEAN 189 MAX 950 MIN 14 MEAN‡ 191 CFSM‡ 1.91 IN‡ 25.94
WTR YR 1975 TOTAL 98133 MEAN 269 MAX 2120 MIN 31 MEAN‡ 271 CFSM‡ 2.71 IN‡ 36.78

PEAK DISCHARGE (BASE, 800 CFS)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
2-26	0415	5.57	931	7-22	unknown	unknown	about 1,000
3-21	1245	5.65	977	7-25	unknown	unknown	about 1,100
7-14	1515	7.40	2,020	9-27	0045	8.14	2,520

† Diversion, in cubic feet per second, from Osborn Pond for municipal supply. Records of diversion furnished by Commonwealth Water Co., Bernards Division.
‡ Adjusted for diversion.
NOTE.--No gage-height record July 15 to Sept. 7.

01380500 Rockaway River above reservoir, at Boonton, N. J.

LOCATION.--Lat 40°54'06", long 74°24'40", Morris County, on right bank at Morris Avenue in Boonton, 1.8 mi (2.9 km) upstream from dam on Boonton Reservoir.

DRAINAGE AREA.--116 mi² (300 km²).

PERIOD OF RECORD.--October 1937 to current year. Monthly discharge only for October 1937, published in WSP 1302.

GAGE.--Water-stage recorder, and concrete control. Datum of gage is 364.47 ft (111.090 m) above mean sea level (New Jersey Geological Survey bench mark).

AVERAGE DISCHARGE.--38 years, 219 ft³/s (6.202 m³/s), unadjusted.

EXTREMES.--Current year: Maximum discharge, 2,230 ft³/s (63.2 m³/s) July 25 (gage height, 5.43 ft or 1.655 m); minimum, 66 ft³/s (1.87 m³/s) Oct. 15 (gage height, 2.11 ft or 0.643 m).
Period of record: Maximum discharge, 3,510 ft³/s (99.4 m³/s) June 2, 1952 (gage height, 6.62 ft or 2.018 m) from rating curve extended above 2,400 ft³/s (68 m³/s); minimum daily, 10 ft³/s (0.28 m³/s) Aug. 10, 1966.

REMARKS.--Records good. Flow regulated by Splitrock Reservoir 14.5 mi (23.3 km) above station (see Passaic River Basin, reservoirs in). Town of Boonton diverts water for municipal supply from Taylortown Reservoir on Stony Brook, capacity, 75,000,000 gal (283,900 m³) and by pumping from wells in vicinity of Boonton. The mean diversion during the water year from Taylortown Reservoir was 0.3 ft³/s (0.008 m³/s). Rockaway Valley trunk sewer bypasses the station (see sta 01381000). Records of water quality for the current year are published in Section 2 of this report.

COOPERATION.--Gage-height record collected in cooperation with Jersey City, Bureau of Water.

REVISIONS (WATER YEARS).--WRD-NJ 1973: 1952 (M). WRD-NJ 1974: Period of record (m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	275	95	103	207	302	456	412	217	426	201	293	131
2	189	98	643	212	345	417	367	233	317	153	229	118
3	144	94	634	184	313	355	642	229	222	121	200	108
4	120	93	413	172	282	315	882	331	204	109	192	95
5	108	90	326	163	279	296	639	627	209	97	251	87
6	102	105	269	152	298	279	539	442	756	117	205	87
7	99	105	238	226	302	270	474	475	802	150	366	85
8	91	102	653	252	269	276	423	403	520	110	278	83
9	86	96	1080	713	245	231	379	329	387	102	213	87
10	77	91	803	758	212	210	349	301	300	110	177	79
11	73	88	644	543	210	207	325	267	232	95	159	74
12	73	98	533	489	178	226	307	262	423	88	145	136
13	72	516	461	540	215	303	287	549	863	859	132	260
14	73	376	408	567	217	261	262	992	619	1450	135	139
15	70	278	358	443	194	262	254	601	418	1310	125	110
16	309	220	508	378	189	254	259	538	320	1120	155	96
17	452	183	938	332	215	253	245	467	314	805	159	88
18	269	168	630	359	324	236	226	369	274	637	140	83
19	201	148	485	686	382	325	249	325	229	472	122	116
20	156	149	407	592	381	1500	234	289	329	386	109	132
21	138	191	354	444	315	1330	283	256	244	1040	101	177
22	125	186	321	467	270	1040	186	230	195	836	101	142
23	114	161	289	358	316	851	175	209	164	543	101	511
24	101	143	269	331	561	714	263	187	152	422	114	920
25	98	137	300	445	984	732	475	174	156	1470	506	1660
26	97	138	314	695	753	821	534	161	133	1350	357	1480
27	97	111	271	525	599	515	387	150	121	944	214	1520
28	94	112	241	433	495	448	299	135	174	695	154	1160
29	92	109	221	500	---	415	244	123	342	516	125	833
30	89	106	204	525	---	496	225	140	271	414	169	619
31	92	---	187	437	---	498	---	320	---	344	171	---
TOTAL	4176	4571	13565	12988	9725	14590	10743	10323	10124	17144	5898	11214
MEAN	135	152	438	419	347	471	358	333	337	553	190	374
MAX	452	516	1080	758	984	1500	882	992	863	1470	506	1660
MIN	70	88	103	152	178	207	175	123	121	88	101	74

CAL YR 1974 TOTAL 104741 MEAN 287 MAX 1150 MIN 40
WTR YR 1975 TOTAL 125001 MEAN 342 MAX 1660 MIN 70

PEAK DISCHARGE (BASE, 950 CFS)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
12-08	2400	4.09	1,210	5-14	0615	3.98	1,140
12-17	0130	3.90	1,090	6-07	0400	3.71	963
1-09	unknown	3.94	1,120	7-13	2230	4.87	1,730
2-25	0630	3.85	1,060	7-21	1200	4.13	1,230
3-20	unknown	4.92	1,770	7-25	unknown	5.43	2,230
4-03	2145	3.83	1,040	9-25	1730	4.92	1,770

01381000 Rockaway River below reservoir, at Boonton, N. J.

LOCATION.--Lat 40°53'47", long 74°23'36", Morris County, on right bank 2,000 ft (610 m) downstream from Boonton Reservoir Dam at Boonton.

DRAINAGE AREA.--119 mi² (308 km²).

PERIOD OF RECORD.--March to December 1903; January, February 1904 (gage height only); January 1906 to September 1950 (monthly discharge only, published in WSP 1302) October 1950 to current year (figures of daily discharge for October 1950 to September 1954 published in Special Report 16 of New Jersey Department of Environmental Protection). Published as "near Boonton" 1903-4, and as "at Boonton" 1906-37.

GAGE.--Water-stage recorder. Concrete control since Nov. 5, 1936. Datum of gage is 195.68 ft (59.643 m) above mean sea level (New Jersey Geological Survey bench mark). Mar. 15, 1903, to Feb. 2, 1904, nonrecording gage at site 1.9 mi (3.1 km) downstream at different datum. Jan. 1, 1906, to Mar. 3, 1918, nonrecording gage on Boonton Dam 2,000 ft (610 m) upstream at datum 305.25 ft (93.040 m) above mean sea level (New Jersey Geological Survey bench mark).

AVERAGE DISCHARGE.--69 years (1906-75), 135 ft³/s (3.823 m³/s) adjusted for sewage effluent since October 1930.

EXTREMES.--Current year: Maximum discharge, 1,620 ft³/s (45.9 m³/s) Sept. 25 (gage height, 5.63 ft or 1.716 m); minimum daily, 9.1 ft³/s (0.26 m³/s) Oct. 13, 14, 15.
Period of record: Maximum daily discharge, 7,560 ft³/s (214 m³/s), Oct. 10, 1903; practically no flow for many days in some years.

REMARKS.--Records fair. Records represent flow in river only. Sewage effluent enters river about 600 ft (183 m) below station (records given herein). Flow regulated by Boonton Reservoir (see Passaic River Basin, reservoirs in) 2,000 ft (610 m) above station, and by Splitrock Reservoir (see Passaic River Basin, reservoirs in) 16.5 mi (26.5 km) above station. Water diverted from Boonton Reservoir from municipal supply of Jersey City (see Passaic River Basin, diversions).

COOPERATION.--Gage-height records for station and records of sewage effluent furnished by Jersey City, Bureau of Water.

REVISIONS (WATER YEARS).--WSP 1902: 1951-54.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	140	33	10	119	291	350	242	96	198	93	165	37
2	56	14	11	125	245	317	219	101	198	56	121	24
3	29	10	199	111	219	242	337	107	128	29	86	14
4	19	10	287	97	190	195	582	132	96	15	60	11
5	14	10	202	90	184	171	532	384	83	11	64	11
6	13	10	153	78	198	161	375	350	386	11	58	11
7	11	10	170	101	195	146	310	294	506	11	150	11
8	11	10	292	151	182	140	232	238	406	12	150	11
9	10	10	573	280	153	125	201	187	250	12	98	11
10	10	10	416	568	128	105	179	161	184	11	67	13
11	9.7	10	325	474	119	96	168	141	132	11	43	14
12	9.4	10	317	393	115	96	161	123	151	11	27	14
13	9.1	26	290	388	183	148	153	219	447	201	19	12
14	9.1	163	251	384	121	151	139	710	447	1200	19	12
15	9.1	153	219	375	109	139	121	528	302	1130	12	12
16	13	104	298	333	101	132	111	337	219	1020	15	14
17	16	72	393	258	113	123	105	329	179	885	39	14
18	57	52	350	213	168	117	96	222	158	615	37	14
19	76	36	321	333	235	134	111	179	125	546	26	14
20	52	34	298	337	267	840	115	148	148	310	13	14
21	38	62	242	321	232	1210	88	117	143	645	10	14
22	22	43	213	302	190	860	66	97	115	725	10	14
23	13	43	186	262	192	665	53	83	88	389	10	27
24	10	38	143	232	342	478	90	70	49	302	10	484
25	59	28	173	262	745	429	213	57	42	825	156	1370
26	62	25	201	532	460	411	306	56	31	1300	245	1420
27	56	13	176	426	460	321	248	47	19	720	122	1320
28	47	10	151	380	399	283	176	24	16	456	62	960
29	115	11	136	398	---	228	130	12	96	367	30	539
30	92	10	171	411	---	262	107	9.7	148	298	35	386
31	59	---	107	350	---	287	---	81	---	235	50	---
TOTAL	1134.4	1068	7074	9082	6448	9378	5966	5639.7	5402	12452	2007	6730
MEAN	36.6	35.6	228	293	230	303	199	182	180	402	64.7	224
MAX	140	163	573	568	745	1210	582	710	506	1300	245	1420
MIN	9.1	10	10	78	101	96	53	9.7	16	11	10	11
(†)	9.6	9.1	10.8	12.1	11.6	11.8	10.3	9.3	11.2	12.7	10.8	11.5
(‡)	9.3	9.4	12.7	12.7	11.1	11.6	12.7	11.8	11.0	9.6	9.3	10.4

CAL YR 1974 TOTAL 46241.1 MEAN 127 MAX 770 MIN 9.1
WTR YR 1975 TOTAL 72381.1 MEAN 198 MAX 1420 MIN 9.1

† Sewage effluent, in cubic feet per second.

‡ Sewage effluent, in cubic feet per second, during water year 1974, not previously published.

PASSAIC RIVER BASIN

01381500 Whippany River at Morristown, N. J.

LOCATION.--Lat 40°48'21", long 74°27'22, Morris County, on left bank at Morristown sewage-disposal plant, 0.8 mi (1.3 km) downstream from Morristown, and 9.0 mi (14.5 km) upstream from mouth.

DRAINAGE AREA.--29.4 mi² (76.1 km²).

PERIOD OF RECORD.--August 1921 to current year.

GAGE.--Water-stage recorder. Concrete control since July 1, 1936. Datum of gage is 260.01 ft (79.251 m) above mean sea level (New Jersey Geological Survey bench mark). Prior to July 16, 1930, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--54 years, 50.9 ft³/s (1.441 m³/s) 23.51 in/yr (597 mm/yr).

EXTREMES.--Current year: Maximum discharge, 1,020 ft³/s (28.9 m³/s) probably occurred Sept. 25 (gage height, 5.24 ft or 1.597 m, from crest-stage gage; minimum 16 ft³/s (0.45 m³/s) Oct. 10, 11, 13, 15, Nov. 10, 11 (gage height, 1.89 ft or 0.576 m).

Period of record: Maximum discharge, 2,280 ft³/s (64.6 m³/s) Aug. 28, 1971 (gage height, 7.60 ft or 2.316 m); minimum, 2.8 ft³/s (0.079 m³/s) Aug. 27, 1932 (gage height, 0.73 ft or 0.223 m).

REMARKS.--Records fair. Flow occasionally regulated by operation of gates in Pocahontas Dam, 2.5 mi (4.0 km) above station. Records of water quality for the current year are published in Section 2 of this report.

REVISIONS (WATER YEARS).--WSP 781: Drainage area. WSP 1552: 1922-23(M), 1924, 1925-27(M), 1928-29, 1930-32(M), 1933-34. WRD-NJ 1974: CORRECTION 1965.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	34	21	20	52	70	81	75	48	141	79	94	46
2	28	21	160	47	67	76	70	56	83	62	82	43
3	26	20	155	38	64	72	165	51	52	58	74	40
4	22	20	110	38	60	65	134	121	50	57	67	37
5	21	22	84	36	65	63	78	186	72	51	62	35
6	20	23	70	34	72	63	74	87	203	49	71	33
7	20	20	62	78	71	63	71	132	193	60	85	32
8	19	19	150	59	62	66	68	80	83	57	73	30
9	19	18	265	232	57	54	65	68	71	59	66	29
10	18	18	200	138	51	53	64	65	66	71	62	28
11	18	18	170	88	51	55	62	62	62	56	57	41
12	18	42	130	73	47	76	60	64	176	49	53	59
13	18	135	115	119	56	89	57	149	323	515	50	89
14	19	42	102	102	50	64	56	146	149	534	48	58
15	19	33	90	70	48	71	56	79	95	344	46	41
16	146	26	150	63	52	68	60	110	89	183	54	34
17	105	24	235	59	69	66	54	81	89	221	50	31
18	35	23	165	110	110	58	52	67	75	152	48	29
19	27	22	122	167	111	161	58	65	85	112	45	44
20	24	20	95	133	84	478	52	61	104	99	41	64
21	22	35	80	82	65	218	47	64	65	449	39	73
22	22	25	66	77	59	125	44	57	57	193	36	74
23	22	22	57	74	82	113	43	51	55	101	34	221
24	22	22	47	72	252	109	87	48	86	87	34	374
25	22	22	55	131	305	127	117	59	99	664	305	785
26	22	21	64	150	117	94	112	45	62	530	160	425
27	20	21	45	84	91	81	62	47	55	340	85	372
28	20	20	42	75	84	79	53	50	67	160	65	202
29	20	20	40	125	---	80	50	43	94	140	60	117
30	21	20	40	100	---	121	47	72	129	118	54	97
31	23	---	38	76	---	90	---	94	---	102	49	---
TOTAL	890	823	3224	2782	2372	3079	2093	2408	3110	5752	2149	3583
MEAN	28.7	27.4	104	89.7	84.7	99.3	69.8	77.7	104	186	69.3	119
MAX	146	135	265	232	305	478	165	186	323	664	305	785
MIN	18	18	20	34	47	53	43	43	50	49	34	28
CFSM	.98	.93	3.54	3.05	2.88	3.38	2.37	2.64	3.54	6.33	2.36	4.05
IN.	1.13	1.04	4.08	3.52	3.00	3.90	2.65	3.05	3.94	7.28	2.72	4.53

CAL YR 1974 TOTAL 23428 MEAN 64.2 MAX 371 MIN 14 CFSM 2.18 IN 29.64
WTR YR 1975 TOTAL 32265 MEAN 88.4 MAX 785 MIN 18 CFSM 3.01 IN 40.83

PEAK DISCHARGE (BASE, 450 CFS)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
3-20	unknown	4.38	682	7-25	1415	4.78	842
7-13	2000	4.62	776	9-25	0815	5.24	1,020
7-21	1330	3.87	486				

NOTE.--No gage-height record Nov. 26 to Dec. 27.

01382500 Pequannock River at Macopin intake dam, N. J.

LOCATION.--Lat 41°01'00", long 74°23'47", Morris County, on left bank at Macopin intake dam of Newark waterworks, 0.4 mi (0.6 km) downstream from Macopin River, and 3.0 mi (4.8 km) northwest of Butler.

DRAINAGE AREA.--63.7 mi² (165.0 km²).

PERIOD OF RECORD.--January 1898 to current year. Monthly discharge only for some periods, published in WSP 1302. Records for January 1892 to December 1897, published in WSP 541, have been found to be unreliable and should not be used.

GAGE.--Water-stage recorder above dam. Datum of gage is 570.00 ft (173.736 m) above mean sea level (New Jersey Geological Survey bench mark). Prior to May 22, 1970, at datum 13.55 ft (4.130 m) higher.

AVERAGE DISCHARGE.--77 years, 52.2 ft³/s (1.478 m³/s), unadjusted.

EXTREMES.--Current year: Maximum discharge, 1,270 ft³/s (36.0 m³/s) Mar. 20 (gage height, 14.98 ft or 4.566 m), from rating curve extended above 320 ft³/s (9.06 m³/s) on basis of computation of peak flow through culvert and flow over dam; minimum, 3.0 ft³/s (0.08 m³/s) Sept. 9 (gage height, 13.56 ft or 4.133 m).

Period of record: Maximum discharge, about 6,100 ft³/s (173 m³/s) Oct. 10, 1903 (gage height, 17.4 ft or 5.30 m), present datum; no flow over dam during several months of most years.

REMARKS.--Records fair. Records given herein represent flow over intake dam only. Flow regulated by Canistear, Oak Ridge, Clinton, Charlotteburg Reservoirs, and Echo Lake (see Passaic River Basin, reservoirs in). Water diverted above intake dam for municipal supply of city of Newark (see Passaic River Basin, diversions). Records of water quality for the current year are published in Section 2 of this report.

COOPERATION.--Gage-height record collected in cooperation with the Department of Public Affairs, Division of Water Supply, City of Newark. Prior to May 22, 1970, discharge figures furnished by city of Newark.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	10	9.0	8.1	14	34	163	114	9.0	16	7.5	19	7.5
2	10	7.6	54	12	30	121	77	11	11	6.0	16	7.5
3	9.0	7.6	31	12	26	88	250	11	11	6.0	13	9.0
4	7.6	7.6	22	11	22	54	466	19	11	6.0	11	7.5
5	6.2	9.0	17	10	26	34	331	30	16	6.0	22	7.5
6	6.2	9.0	15	10	26	26	135	19	59	6.0	16	7.5
7	6.2	7.6	14	16	26	22	107	34	34	7.5	22	7.5
8	6.2	7.6	95	15	22	26	100	77	22	7.5	16	7.5
9	6.2	7.6	80	100	22	16	77	59	19	6.0	11	6.0
10	6.2	6.2	48	71	19	13	54	38	13	7.5	9.0	6.0
11	6.2	6.2	35	59	19	13	38	26	11	6.0	9.0	6.0
12	6.2	7.6	27	48	22	13	30	22	34	7.5	7.5	13
13	7.6	40	23	65	34	16	22	121	48	94	7.5	13
14	7.6	19	20	48	42	13	19	194	30	88	7.5	9.0
15	6.2	16	19	38	30	13	19	121	22	83	7.5	6.0
16	22	14	53	30	16	11	19	100	22	107	9.0	6.0
17	19	12	59	26	19	13	16	94	22	77	7.5	7.5
18	12	12	36	38	26	11	13	59	19	186	7.5	6.0
19	10	10	29	54	30	48	13	38	19	107	6.0	9.0
20	10	10	25	48	26	908	11	26	22	65	6.0	22
21	9.0	17	22	34	26	790	9.0	22	13	421	6.0	22
22	7.6	14	20	30	26	530	7.5	22	11	340	6.0	19
23	7.6	9.4	17	30	38	403	7.5	19	11	128	6.0	13
24	7.6	9.0	16	26	83	234	11	13	9.0	71	6.0	13
25	7.6	10	23	54	156	304	19	13	9.0	511	11	13
26	7.6	11	20	59	511	242	19	13	7.5	412	13	13
27	7.6	8.7	15	42	304	186	13	9.0	7.5	135	9.0	11
28	7.6	7.6	14	38	210	128	11	9.0	11	71	7.5	11
29	7.6	8.4	14	54	---	107	11	9.0	11	48	6.0	11
30	7.6	7.9	13	42	---	156	9.0	11	9.0	30	11	11
31	7.6	---	12	38	---	178	---	13	---	22	9.0	---
TOTAL	265	328	896	1172	1871	4880	2028	1261	560	3075	320	308
MEAN	8.57	11.0	28.9	37.8	66.8	157	67.6	40.7	18.7	99.2	10.3	10.3
MAX	22	40	95	100	511	908	466	194	59	511	22	22
MIN	6.2	6.2	8.1	10	16	11	7.5	9.0	7.5	6.0	6.0	6.0

CAL YR 1974 TOTAL 16115.8 MEAN 44.2 MAX 481 MIN 2.7
WTR YR 1975 TOTAL 16966.3 MEAN 46.5 MAX 908 MIN 6.0

01383500 Wanaque River at Awosting, N. J.

LOCATION.--Lat 41°09'31", long 74°20'00", Passaic County, on right bank 700 ft (210 m) downstream from dam at outlet of Greenwood Lake at Awosting.

DRAINAGE AREA.--27.1 mi² (70.2 km²).

PERIOD OF RECORD.--May 1919 to current year. Prior to October 1940, published as "at Greenwood Lake".

GAGE.--Water-stage recorder. Concrete control since Oct. 31, 1938. Datum of gage is 601.32 ft (183.282 m) above mean sea level (New Jersey Geological Survey bench mark). Prior to Apr. 1, 1926, nonrecording gage and Apr. 1, 1926, to Oct. 31, 1938, water-stage recorder at site 100 ft (30 m) upstream at same datum.

AVERAGE DISCHARGE.--56 years, 52.4 ft³/s (1.484 m³/s), unadjusted.

EXTREMES.--Current year: Maximum discharge, 484 ft³/s (13.7 m³/s) Mar. 21 (gage height, 3.84 ft or 1.170 m); maximum gage height, 3.87 ft (1.180 m) Sept. 26; minimum discharge, 1.7 ft³/s (0.05 m³/s) Aug. 24.
Period of record: Maximum discharge, 1,300 ft³/s (36.8 m³/s) Oct. 16, 1955 (gage height, 5.85 ft or 1.783 m) from rating curve extended above 300 ft³/s (8.50 m³/s) on basis of laboratory rating; no flow at times when gates at Greenwood Lake were closed and no water passed over spillway.

REMARKS.--Records good except those above 300 ft³/s (8.5 m³/s), which are fair. Flow completely regulated by Greenwood Lake (see Passaic River Basin, reservoirs in).

COOPERATION.--Gage-height record collected in cooperation with North Jersey District Water Supply Commission.

REVISIONS (WATER YEARS).--WSP 781: Drainage area. WSP 1552: 1922(M), 1928(M), 1936.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	52	16	36	57	103	159	73	29	46	20	33	15
2	46	16	85	57	91	136	65	35	49	16	29	13
3	39	19	130	56	80	114	107	37	47	13	25	12
4	30	16	129	52	67	95	170	38	58	11	21	7.6
5	25	18	95	50	67	75	155	53	52	8.3	23	6.7
6	22	20	82	45	67	65	136	51	84	7.0	23	5.7
7	21	19	71	51	62	59	114	80	91	6.5	28	5.1
8	20	18	129	52	57	56	95	78	80	4.9	23	4.5
9	16	15	261	153	51	45	78	73	67	4.0	19	5.9
10	13	14	241	161	47	38	67	68	54	4.0	16	5.4
11	12	9.6	203	170	43	36	59	62	44	4.0	16	4.0
12	11	9.0	170	170	43	35	53	61	53	3.8	14	7.9
13	12	38	146	191	46	42	47	95	85	91	11	20
14	9.3	51	127	179	42	44	42	134	84	220	9.7	18
15	10	56	110	146	38	46	38	127	71	281	7.3	13
16	34	51	99	130	36	39	40	121	62	264	6.7	11
17	48	46	130	114	36	38	37	116	58	287	7.0	10
18	49	41	138	103	39	35	32	101	51	235	6.7	8.6
19	41	38	130	123	43	56	31	91	46	177	5.4	13
20	36	38	119	138	49	327	32	76	44	140	4.2	16
21	30	46	105	127	50	409	32	62	34	206	2.9	17
22	25	52	95	110	50	320	26	52	27	196	2.9	16
23	25	41	85	97	61	257	24	46	28	151	2.4	32
24	23	37	78	85	125	203	29	41	22	114	4.5	112
25	20	38	73	89	264	182	38	33	24	136	22	346
26	23	45	73	130	270	159	49	27	20	134	24	467
27	21	31	71	134	232	129	44	26	17	101	24	473
28	18	29	70	123	191	95	36	24	20	76	19	380
29	17	29	67	123	---	80	32	20	27	59	14	274
30	16	35	64	130	---	87	30	19	27	46	19	232
31	17	---	59	116	---	85	---	32	---	37	20	---
TOTAL	781	931	3471	3462	2350	3546	1811	1908	1472	3053	482	2551
MEAN	25.2	31.1	112	112	83.9	114	60.4	61.5	49.1	98.5	15.6	85.0
MAX	52	56	261	191	270	409	170	134	91	287	33	473
MIN	9.3	9.0	36	45	36	35	24	19	17	3.8	2.4	4.0

CAL YR 1974 TOTAL 19739.2 MEAN 54.1 MAX 261 MIN 4.7
WTR YR 1975 TOTAL 25820.5 MEAN 70.7 MAX 473 MIN 2.4

PEAK DISCHARGE (BASE, 200 CFS)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
12-09	1215	3.34	267	7-17	0815	3.48	298
2-25	1630	3.38	281	7-21	1245	3.23	217
3-21	0730	3.84	484	9-26	0830	3.87	473

01384000 Wanaque River at Monks, N. J.

LOCATION.--Lat 41°07'14", long 74°17'41", Passaic County, on left bank just upstream from Wanaque Reservoir and 0.3 mi (0.5 km) downstream from highway bridge at Monks.

DRAINAGE AREA.--40.4 mi² (104.6 km²).

PERIOD OF RECORD.--October 1934 to current year. Monthly discharge only for October to December 1934, published in WSP 1302.

GAGE.--Water-stage recorder and concrete dam. Datum of gage is 303.17 ft (92.406 m) above mean sea level (New Jersey Geological Survey bench mark).

AVERAGE DISCHARGE.--41 years, 80.9 ft³/s (2.291 m³/s), unadjusted.

EXTREMES.--Current year: Maximum discharge, 756 ft³/s (21.4 m³/s) Sept. 27 (gage height, 2.02 ft or 0.616 m); no flow part of Aug. 18 just after waste gate was closed and water was below intake to ports; minimum daily, 6.0 ft³/s (0.17 m³/s) Aug. 22.

Period of record: Maximum discharge, 3,640 ft³/s (103 m³/s) Aug. 19, 1955 (gage height, 4.15 ft or 1.265 m, from high-water mark in gage house) from rating curve extended above 1,000 ft³/s (28.3 m³/s); no flow for part of day in some years just after the waste gate was closed and water was below intake to ports.

REMARKS.--Records good. Records given herein include flow over spillway, through ports in dam, and down fish ladder in dam. Flow regulated by Greenwood Lake (see Passaic River Basin, reservoirs in).

COOPERATION.--Gage-height record collected in cooperation with North Jersey District Water Supply Commission.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	75	26	58	72	149	206	121	46	75	31	56	25
2	60	24	195	62	121	173	111	58	72	23	50	21
3	52	26	195	67	105	149	117	62	75	20	42	19
4	40	24	180	65	99	124	324	67	99	17	37	13
5	36	26	142	62	102	105	253	99	82	13	44	11
6	31	31	124	54	99	93	217	87	173	11	40	9.0
7	29	28	108	77	90	87	191	156	149	11	60	9.0
8	28	26	328	80	82	87	159	135	117	9.6	44	7.4
9	23	23	390	221	75	72	138	122	99	7.9	36	9.0
10	20	21	319	233	70	60	121	115	82	7.4	29	9.0
11	18	17	265	241	65	60	105	108	67	7.9	28	7.0
12	17	17	225	241	87	60	96	100	105	7.4	26	23
13	17	80	191	270	67	77	87	140	173	241	23	42
14	15	77	163	249	60	70	77	195	138	328	19	31
15	14	77	138	210	56	75	70	205	114	346	16	23
16	62	72	195	180	56	67	65	195	99	315	14	18
17	82	65	249	159	62	67	65	190	96	310	15	17
18	70	58	210	173	75	62	60	170	88	265	13	15
19	56	65	177	198	98	67	54	155	75	210	11	23
20	58	60	156	286	87	555	54	130	72	173	9.0	31
21	42	54	138	195	87	562	52	110	54	324	7.4	29
22	37	72	124	163	90	416	50	92	44	253	6.0	28
23	36	56	105	145	156	346	44	78	39	195	6.5	70
24	34	51	99	131	365	283	40	70	36	156	14	274
25	31	52	117	152	395	265	50	59	39	253	70	611
26	34	60	114	233	333	225	77	47	31	195	42	590
27	32	46	96	202	283	191	82	42	26	152	37	590
28	29	44	90	188	237	152	70	41	39	117	31	395
29	28	42	82	187	---	128	58	33	46	96	24	297
30	26	48	77	202	---	131	50	32	42	77	34	233
31	28	---	70	173	---	145	---	58	---	62	34	---
TOTAL	1152	1368	5112	5108	3643	5160	3053	3197	2438	4234.2	917.9	3479.4
MEAN	37.2	45.6	165	165	130	166	102	103	81.3	137	29.6	116
MAX	82	80	390	270	395	562	324	205	173	346	70	611
MIN	14	17	58	54	56	60	40	32	26	7.4	6.0	7.0

CAL YR 1974 TOTAL 29281.8 MEAN 80.2 MAX 390 MIN 5.4
WTR YR 1975 TOTAL 38862.5 MEAN 106 MAX 611 MIN 6.0

PEAK DISCHARGE (BASE, 400 CFS)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
12-08	1700	1.76	562	7-13	1145	1.71	527
2-24	1515	1.62	472	7-14	1545	1.71	527
3-20	2230	1.96	708	7-21	0345	1.51	406
4-04	0315	1.49	400	9-27	0200	2.02	756

PASSAIC RIVER BASIN

01384500 Ringwood Creek near Wanaque, N. J.

LOCATION.--Lat 41°07'36", long 74°15'52", Passaic County, on right bank 500 ft (150 m) upstream from Wanaque Reservoir, 0.7 mi (1.1 km) downstream from Ringwood Mill Pond Dam, and 6.5 mi (10.5 km) north of Wanaque.

DRAINAGE AREA.--19.1 mi² (49.5 km²).

PERIOD OF RECORD.--October 1934 to current year. Monthly discharge only for some periods, published in WSP 1302.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 302.67 ft (92.254 m) above mean sea level (New Jersey Geological Survey bench mark).

AVERAGE DISCHARGE.--41 years, 33.1 ft³/s (0.937 m³/s) 23.53 in/yr (598 mm/yr).

EXTREMES.--Current year: Maximum discharge, 471 ft³/s (13.3 m³/s) Sept. 27 (gage height 2.38 ft or 0.725 m); minimum, 4.0 ft³/s (0.11 m³/s) Sept. 10-12 (gage height, 0.25 ft or 0.076 m).
Period of record: Maximum discharge, 1,150 ft³/s (32.6 m³/s) Mar. 30, 1951 (gage height, 3.74 ft or 1.140 m, from floodmark); no flow for part of day in most years just after waste gate was closed and water was below intake to ports.

REMARKS.--Records good. Records given herein include flow over spillway and through ports in dam or through waste gate in dam. Flow slightly regulated by Ringwood Mill Pond, Sterling, and Sterling Forest Lakes, and several smaller lakes above station.

COOPERATION.--Gage-height record collected in cooperation with North Jersey District Water Supply Commission.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	21	12	14	32	58	81	50	19	25	14	21	8.6
2	18	11	98	32	53	73	47	29	19	12	18	7.8
3	15	10	78	27	49	64	131	27	31	10	16	7.4
4	12	10	59	25	43	52	114	32	41	9.5	16	5.8
5	12	11	50	24	41	47	91	44	28	7.8	17	5.0
6	10	12	46	21	43	44	76	38	76	8.2	16	4.8
7	10	11	41	37	41	41	70	67	53	10	25	5.8
8	9.0	10	124	34	35	40	62	55	38	9.5	24	4.6
9	8.2	10	133	103	32	31	56	49	29	7.0	18	4.6
10	7.4	9.5	102	90	28	28	50	44	24	6.2	16	4.2
11	7.0	9.5	86	88	25	27	46	41	22	5.8	13	4.2
12	6.6	10	76	83	25	27	43	41	53	6.2	12	15
13	6.2	50	68	108	27	31	38	83	88	149	11	19
14	5.8	27	61	88	25	31	34	111	61	151	10	10
15	5.4	24	55	75	21	29	32	88	47	149	8.5	7.8
16	38	20	91	67	21	29	31	86	46	112	6.1	7.0
17	40	18	109	59	24	29	28	75	43	91	7.4	7.0
18	20	17	81	65	29	27	24	65	34	79	8.4	6.2
19	17	17	78	83	38	72	24	59	28	68	6.6	9.0
20	16	18	82	81	43	240	21	53	24	59	5.4	10
21	14	27	58	65	38	220	19	47	18	107	4.8	9.0
22	12	22	52	61	35	190	18	41	17	90	5.4	7.8
23	12	18	46	56	56	110	17	35	16	65	5.0	28
24	12	18	43	53	120	85	27	29	14	53	15	114
25	12	17	46	76	163	91	40	25	14	78	31	277
26	12	17	52	93	114	69	40	21	13	81	14	198
27	12	16	43	75	103	55	28	18	11	62	10	265
28	11	16	38	67	90	58	24	17	14	50	8.6	139
29	11	15	34	83	---	54	21	15	28	41	7.8	105
30	11	14	32	75	---	68	19	16	17	32	13	86
31	12	---	28	64	---	59	---	22	---	27	11	---
TOTAL	415.6	497.0	1986	1982	1420	2101	1321	1392	972	1650.2	401.0	1382.6
MEAN	13.4	16.6	64.1	63.9	50.7	67.8	44.0	44.9	32.4	53.2	12.9	46.1
MAX	40	50	133	108	163	240	131	111	88	151	31	277
MIN	5.4	9.5	14	21	21	27	17	15	11	5.8	4.8	4.2
CFSM	.70	.87	3.36	3.35	2.65	3.55	2.30	2.35	1.70	2.79	.68	2.41
IN.	.81	.97	3.87	3.86	2.77	4.09	2.57	2.71	1.89	3.21	.78	2.69

CAL YR 1974 TOTAL 12566.3 MEAN 34.4 MAX 183 MIN 1.8 CFSM 1.80 IN 24.47
WTR YR 1975 TOTAL 15520.4 MEAN 42.5 MAX 277 MIN 4.2 CFSM 2.23 IN 30.23

PEAK DISCHARGE (BASE, 230 CFS)

DATE	TIME	G.H.	DISCHARGE
7-13	1145	11.96	316
9-24	2230	12.05	348
9-27	0245	12.38	471

01386000 West Brook near Wanaque, N. J.

LOCATION.--Lat 41°04'16", long 74°18'45", Passaic County, on right bank just upstream from Wanaque Reservoir, 0.3 mi (0.5 km) downstream from Burnt Meadow Brook, and 2.5 mi (4.0 km) northwest of Wanaque.

DRAINAGE AREA.--11.8 mi² (30.6 km²).

PERIOD OF RECORD.--October 1934 to current year. Monthly discharge only for October to December 1934, published in WSP 1302.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 326.79 ft (99.606 m) above mean sea level (New Jersey Geological Survey bench mark).

AVERAGE DISCHARGE.--41 years, 23.9 ft³/s (0.677 m³/s), 27.50 in/yr (698 mm/yr).

EXTREMES.--Current year: Maximum discharge, 406 ft³/s (11.5 m³/s) Sept. 25 (gage height, 2.58 ft or 0.786 m); no flow part of Aug. 14 when waste gate was closed and water was below intakes to ports.
Period of record: Maximum discharge, 1,900 ft³/s (53.8 m³/s) Mar. 30, 1951 (gage height, 6.6 ft or 2.01 m, from floodmark), from rating curve extended above 630 ft³/s (17.8 m³/s); no flow part of day in most years just after waste gate was closed and water was below intakes to ports.

REMARKS.--Records good. Records given herein include flow over spillway and through ports in dam or through waste gate in dam. Flow slightly regulated by several lakes above station.

COOPERATION.--Gage-height record collected in cooperation with North Jersey District Water Supply Commission.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	26	8.0	12	16	41	43	31	15	14	7.5	14	4.8
2	19	8.0	104	17	36	36	28	20	10	6.5	12	4.0
3	14	7.5	72	15	33	30	126	21	9.2	5.6	9.6	3.5
4	12	7.0	48	15	29	27	106	26	13	5.2	9.2	3.0
5	11	7.5	37	15	25	24	61	53	11	4.4	11	2.7
6	9.8	9.2	32	12	24	23	50	39	73	4.4	10	2.7
7	7.5	8.6	27	19	24	21	44	55	46	4.4	10	3.0
8	6.5	8.0	122	25	23	22	39	39	26	4.0	13	2.4
9	6.5	7.5	152	96	22	18	36	31	18	5.6	12	4.8
10	6.0	7.5	81	88	21	17	32	28	14	3.6	9.4	4.8
11	5.6	10	62	64	20	17	27	26	11	3.3	7.8	3.3
12	5.6	11	51	59	19	22	26	24	33	3.0	7.5	12
13	5.2	66	45	65	18	28	24	54	79	115	6.5	16
14	7.0	40	38	61	17	23	22	49	46	124	4.2	6.0
15	9.2	38	34	48	17	21	20	34	29	90	3.6	3.5
16	48	26	40	41	17	22	21	34	24	70	4.8	3.0
17	50	22	64	34	18	24	20	30	24	61	5.6	3.0
18	29	19	46	44	19	23	16	25	21	48	4.8	2.7
19	21	14	40	73	25	67	17	23	16	38	3.6	8.6
20	16	13	39	67	31	300	14	20	14	32	3.3	9.8
21	14	18	33	58	32	144	13	17	13	101	3.0	7.0
22	12	18	31	48	32	84	13	15	11	55	2.7	5.6
23	11	14	28	42	38	64	11	14	9.6	34	2.4	38
24	11	14	26	37	52	56	19	12	8.6	26	3.0	142
25	10	14	31	51	88	60	31	10	9.2	140	19	356
26	10	14	32	89	70	48	32	11	8.6	72	25	202
27	9.2	11	26	62	58	36	24	9.2	7.5	50	14	234
28	8.0	10	23	52	50	31	20	7.0	9.8	34	5.2	96
29	8.0	10	21	60	---	30	19	6.0	14	31	3.6	60
30	8.0	10	19	52	---	45	16	6.5	10	26	8.0	49
31	8.0	---	17	45	---	34	---	12	---	17	7.0	---
TOTAL	424.1	462.8	1453	1475	899	1445	956	765.7	632.5	1226.5	254.8	1293.4
MEAN	13.7	15.4	46.9	47.6	32.1	46.6	31.9	24.7	21.1	39.6	8.22	43.1
MAX	50	66	152	96	88	300	126	55	79	140	25	356
MIN	5.2	7.0	12	12	17	17	11	6.0	7.5	3.0	2.4	2.4
CFSM	1.16	1.31	3.97	4.03	2.72	3.95	2.70	2.09	1.79	3.36	.70	3.65
IN.	1.34	1.46	4.58	4.65	2.83	4.56	3.01	2.41	1.99	3.87	.80	4.08

CAL YR 1974 TOTAL 8940.7 MEAN 24.5 MAX 152 MIN 1.3 CFSM 2.08 IN 28.19
WTR YR 1975 TOTAL 11287.8 MEAN 30.9 MAX 356 MIN 2.4 CFSM 2.62 IN 35.59

PEAK DISCHARGE (BASE, 400 CFS)

DATE	TIME	G.H.	DISCHARGE
9-25	1400	2.58	406

01387000 Wanaque River at Wanaque, N. J.

LOCATION.--Lat 41°02'33", long 74°17'36", Passaic County, on left bank 750 ft (229 m) downstream from Raymond Dam in Wanaque, and 50 ft (15 m) upstream from bridge on State Highway 511.

DRAINAGE AREA.--90.4 mi² (234.1 km²), considered as 94 mi² (243 km²) Oct. 1, 1928, to Sept. 30, 1934, when flow diverted from Post Brook was included in all records.

PERIOD OF RECORD.--December 1903 to December 1905 (gage heights only), September 1912 to April 1915, May 1919 to current year.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 210.00 ft (64.008 m) above mean sea level (New Jersey Geological Survey bench mark). Dec. 16, 1903, to Dec. 31, 1905, nonrecording gage on highway bridge at site 50 ft (15 m) downstream at different datum. Sept. 15, 1912, to Apr. 1, 1922, nonrecording gage at site 200 ft (61 m) downstream from present concrete control at different datum. Apr. 1, 1922, to Mar. 14, 1931, water-stage recorder at site 400 ft (122 m) downstream from present concrete control at present datum.

AVERAGE DISCHARGE.--58 years (1912-14, 1919-75), 78.5 ft³/s (2.223 m³/s), unadjusted.

EXTREMES.--Current year: Maximum discharge, 1,270 ft³/s (36.0 m³/s) Mar. 21 (gage height, 5.23 ft or 1.594 m); minimum daily, 16 ft³/s (0.45 m³/s) July 10, 11.

Period of record: Maximum discharge, 8,470 ft³/s (240 m³/s) Mar. 31, 1951 (gage height, 9.12 ft or 2.780 m) from rating curve extended above 4,300 ft³/s (122 m³/s); minimum daily, 0.5 ft³/s (0.014 m³/s) Dec. 11, 12, 14-23, 1949, Sept. 11, 12, 1965.

REMARKS.--Records good. Flow regulated by Greenwood Lake (see Passaic River Basin, reservoirs in) 11 mi (17.7 km) above station, and since 1928 by Wanaque Reservoir (see Passaic River Basin, reservoirs in). North Jersey Water Supply Commission diverts water for municipal supply from Wanaque Reservoir. Water is diverted to Wanaque Reservoir from Post Brook at Wanaque and from Ramapo River at Pompton Lakes (see Passaic River Basin, diversions). Records of water quality for the current year are published in Section 2 of this report.

COOPERATION.--Gage-height record collected in cooperation with North Jersey District Water Supply Commission.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	18	17	17	18	91	319	147	26	20	18	23	19
2	17	17	18	18	114	248	126	26	19	17	24	19
3	17	17	17	18	129	198	385	25	19	17	24	19
4	17	17	17	18	87	161	771	26	20	17	23	19
5	17	17	17	18	126	101	493	28	19	17	21	19
6	18	17	17	18	126	93	330	26	19	17	24	19
7	17	17	17	19	123	83	240	29	20	17	29	19
8	17	17	18	18	79	159	207	37	24	17	23	19
9	17	17	18	19	73	109	161	46	20	17	22	19
10	17	17	18	18	69	69	95	59	19	16	21	19
11	17	17	18	19	68	69	86	74	19	16	21	19
12	17	17	18	18	68	69	83	78	20	17	21	19
13	17	17	18	19	68	76	77	149	51	22	19	19
14	17	17	18	19	68	72	37	257	108	21	18	19
15	17	17	18	18	68	85	25	226	102	21	18	19
16	18	17	19	18	68	69	51	216	85	21	18	18
17	17	17	18	18	68	70	42	182	71	55	17	19
18	17	17	18	19	68	69	23	145	40	162	17	19
19	17	17	18	18	68	71	36	124	29	172	18	19
20	17	17	18	18	68	664	44	99	38	150	19	19
21	17	17	18	18	68	1190	62	67	21	467	19	19
22	17	17	18	18	68	893	36	38	19	388	19	19
23	17	17	18	18	68	676	34	25	19	217	19	20
24	17	17	18	18	85	530	35	21	19	137	19	22
25	17	17	18	19	618	491	35	22	19	491	19	23
26	17	17	18	19	739	425	61	20	19	403	20	21
27	17	17	18	19	575	266	49	21	18	214	19	26
28	17	17	18	19	420	162	36	22	18	142	19	44
29	17	17	18	21	---	137	30	20	18	87	19	213
30	17	17	18	88	---	181	26	20	18	39	19	332
31	17	---	18	40	---	200	---	19	---	24	19	---
TOTAL	530	510	553	663	4338	8005	3863	2173	950	3436	630	1118
MEAN	17.1	17.0	17.8	21.4	155	258	129	70.1	31.7	111	20.3	37.3
MAX	18	17	19	88	739	1190	771	257	108	491	29	332
MIN	17	17	17	18	68	69	23	19	18	16	17	18

CAL YR 1974 TOTAL 21223 MEAN 58.1 MAX 843 MIN 15
WTR YR 1975 TOTAL 26769 MEAN 73.3 MAX 1190 MIN 16

PASSAIC RIVER BASIN

01387450 Mahwah River near Suffern, N. Y.

LOCATION.--Lat 41°08'27", long 74°07'01", Rockland County, on right bank at upstream side of bridge on U.S. Highway 202, 2.5 mi (4.0 km) northeast of Suffern, and 4.8 mi (7.7 km) upstream from mouth.

DRAINAGE AREA.--12.3 mi² (31.9 km²).

PERIOD OF RECORD.--August 1958 to current year.

GAGE.--Water-stage recorder. Datum of gage is 321.57 ft (98.015 m) above mean sea level.

AVERAGE DISCHARGE.--17 years, 24.0 ft³/s (0.680 m³/s), 26.50 in/yr (673.1 mm/yr).

EXTREMES.--Current year: Maximum discharge, 473 ft³/s (13.4 m³/s) July 14 (gage height, 5.23 ft or 1.594 m); minimum, 2.4 ft³/s (0.068 m³/s) Sept. 11, 12; (gage height, 1.35 ft or 0.411 m).
Period of record: Maximum discharge, 1,650 ft³/s (46.7 m³/s) May 29, 1968 (gage height, 7.78 ft or 2.371 m), from rating extended above 850 ft³/s (24.1 m³/s) on basis of contracted-opening measurement of peak flow; minimum, 0.05 ft³/s (0.001 m³/s) Oct. 20, 21, 1970, result of temporary pumping from gage pool.

REMARKS.--Records fair. Occasional regulation from unknown source.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	32	6.6	8.0	19	33	35	32	12	13	6.6	9.6	4.5
2	20	6.4	43	19	31	32	28	16	10	5.8	8.7	3.8
3	14	6.2	33	15	27	28	98	15	13	5.4	8.0	3.4
4	12	6.2	23	15	24	24	87	17	19	5.0	7.5	3.1
5	9.8	6.4	17	14	24	22	60	27	14	4.8	8.7	2.9
6	8.5	7.7	15	13	24	21	48	22	55	4.8	8.0	2.9
7	7.3	6.8	14	21	24	20	41	57	31	5.8	26	3.2
8	6.4	6.2	93	22	20	22	36	39	19	5.0	13	2.9
9	5.8	5.6	99	87	19	17	32	31	14	5.0	9.3	3.1
10	5.2	5.4	61	74	16	16	29	26	12	7.0	7.0	2.8
11	4.7	5.4	43	59	15	15	26	24	10	5.4	6.4	2.7
12	4.5	5.6	35	53	14	17	24	22	34	4.8	5.8	6.2
13	4.3	34	30	65	14	24	22	39	68	46	5.0	10
14	4.0	22	26	59	14	19	20	48	40	154	4.5	5.6
15	4.0	17	23	44	13	19	19	33	29	106	4.2	4.1
16	21	14	53	37	13	20	19	36	24	55	4.7	3.7
17	25	13	94	33	15	20	17	31	24	36	5.6	3.6
18	16	12	59	41	21	18	16	25	21	26	4.8	3.1
19	12	11	44	59	30	54	16	22	17	20	4.2	5.1
20	10	11	36	55	29	271	15	20	15	17	3.8	5.9
21	9.0	16	32	41	24	147	13	17	12	40	3.4	5.6
22	8.5	15	28	36	22	87	12	16	11	23	3.3	5.2
23	8.2	12	25	34	38	66	12	15	9.8	16	3.1	24
24	7.7	11	23	32	76	56	18	13	9.3	13	6.6	80
25	7.5	11	31	53	103	56	25	12	10	49	7.5	274
26	8.0	11	29	70	66	44	23	11	8.7	26	6.0	192
27	7.0	9.6	22	48	50	36	16	10	7.7	18	4.7	288
28	6.4	9.0	20	40	41	33	14	9.0	7.5	15	3.5	128
29	6.2	8.7	18	53	---	32	13	8.2	8.7	13	3.4	72
30	6.2	8.2	17	47	---	45	12	9.0	8.0	12	6.8	50
31	6.6	---	16	38	---	38	---	13	---	10	5.8	---
TOTAL	307.8	320.0	1110.0	1296	840	1354	843	695.2	574.7	760.4	208.9	1201.4
MEAN	9.93	10.7	35.8	41.8	30.0	43.7	28.1	22.4	19.2	24.5	6.74	40.0
MAX	32	34	99	87	103	271	98	57	68	154	26	288
MIN	4.0	5.4	8.0	13	13	15	12	8.2	7.5	4.8	3.1	2.7

CAL YR 1974 TOTAL 8511.6 MEAN 23.3 MAX 118 MIN 1.5
WTR YR 1975 TOTAL 9511.4 MEAN 26.1 MAX 288 MIN 2.7

PEAK DISCHARGE (BASE, 200 CFS)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
12-08	1830	4.19	244	9-25	0115	4.63	326
3-20	0015	4.83	370	9-27	0445	5.14	449
7-14	1715	5.23	473				

01387500 Ramapo River near Mahwah, N. J.

LOCATION.--Lat 41°05'51", long 74°09'48", Bergen County, on left bank 350 ft (107 m) downstream from State Highway 17, 0.6 mi (1.0 km) downstream from Mahwah River, and 1.0 mi (1.6 km) west of Mahwah.

DRAINAGE AREA.--118 mi² (306 km²).

PERIOD OF RECORD.--October 1902 to December 1906, September 1922 to current year (October 1902 to February 1905 monthly discharge only, published in WSP 1302). Figures of daily discharge Feb. 10, 1903, to Dec. 31, 1904, published in WSP 97, 125, are unreliable and should not be used.

GAGE.--Water-stage recorder. Datum of gage is 253.10 ft (77.145 m) above mean sea level. Prior to Dec. 31, 1906, nonrecording gage on former bridge at site 250 ft (76 m) downstream at different datum. Sept. 1, 1922 to Dec. 23, 1936, water-stage recorder just below former bridge at present datum.

AVERAGE DISCHARGE.--57 years (1902-6, 1922-75), 228 ft³/s (6.457 m³/s), 26.24 in/yr (667 mm/yr).

EXTREMES.--Current year: Maximum discharge, 2,940 ft³/s (83.3 m³/s) Sept. 27 (gage height, 8.85 ft or 2.697 m); minimum, 33 ft³/s (0.93 m³/s) Sept. 8, 9 (gage height, 2.36 ft or 0.719 m).

Period of record: Maximum discharge, about 12,400 ft³/s (351 m³/s) Oct. 9, 1903 (gage height, 11.0 ft or 3.35 m, from graph based on gage readings, site and datum then in use) from rating curve extended above 1,400 ft³/s (39.6 m³/s); minimum, 7 ft³/s (0.20 m³/s) Dec. 16, 1930, Sept. 12, 1932; minimum daily, 8 ft³/s (0.23 m³/s) Aug. 25, 1929, Sept. 5, 12, 1932.

REMARKS.--Records excellent. Diurnal fluctuation occasionally at low flow caused by power plants above station. Records of water quality for the current year are published in Section 2 of this report.

REVISIONS (WATER YEARS).--WSP 781: 1904(M). WSP 1031: 1938, 1940. WSP 1552: 1923(M), 1924, 1925-26(M), 1927-28, 1933, 1937. WRD-NJ 1971: 1968(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	258	95	99	213	345	452	340	138	167	80	107	69
2	177	94	499	215	305	390	381	176	144	65	98	76
3	136	85	611	186	271	340	733	182	154	56	87	55
4	120	83	396	173	237	290	948	193	244	54	90	46
5	107	91	278	164	237	264	646	259	186	48	110	41
6	96	98	231	152	248	246	508	240	446	44	127	38
7	88	96	207	211	239	240	429	452	351	53	273	36
8	81	103	728	223	213	248	375	398	235	53	214	34
9	70	96	1410	580	194	285	335	315	174	52	149	44
10	64	85	803	761	173	182	303	273	144	49	115	58
11	60	78	553	583	170	178	279	246	124	45	99	43
12	56	79	453	580	173	203	255	246	277	44	87	89
13	55	309	396	648	188	257	231	440	568	487	83	154
14	53	278	345	670	175	224	214	952	403	1400	76	100
15	53	199	300	505	166	226	201	706	286	1430	67	72
16	211	167	448	416	162	214	203	559	231	920	72	58
17	359	145	898	354	184	214	186	478	220	652	72	53
18	231	132	670	379	237	203	167	375	188	520	67	50
19	162	125	481	572	269	398	165	324	159	368	58	70
20	133	128	401	577	282	2320	156	281	139	297	52	68
21	119	184	352	451	256	1730	141	244	118	550	47	67
22	107	188	369	391	242	972	127	220	99	475	46	56
23	103	155	271	352	347	733	122	193	89	306	44	224
24	99	149	250	321	789	604	180	172	83	233	99	733
25	96	149	312	426	1430	604	270	147	81	559	178	2370
26	107	149	342	648	988	493	270	128	72	410	115	2080
27	100	128	263	507	682	398	207	121	68	275	78	2520
28	91	114	235	416	535	347	167	110	68	212	60	1400
29	86	107	213	471	---	326	149	98	128	167	50	786
30	86	100	199	484	---	419	139	105	107	138	91	558
31	91	---	191	399	---	421	---	147	---	121	90	---
TOTAL	3655	3989	13144	13028	9737	14341	8767	8918	5753	10163	3001	12048
MEAN	118	133	424	420	348	463	292	288	192	328	96.8	402
MAX	359	309	1410	761	1430	2320	948	952	568	1430	273	2520
MIN	53	78	99	152	162	178	122	98	68	44	44	34
CFSM	1.00	1.13	3.59	3.56	2.95	3.92	2.47	2.44	1.63	2.78	.82	3.41
IN.	1.15	1.26	4.14	4.11	3.07	4.52	2.76	2.81	1.81	3.20	.95	3.80

CAL YR 1974 TOTAL 84856 MEAN 232 MAX 1410 MIN 17 CFSM 1.97 IN 26.75
WTR YR 1975 TOTAL 106524 MEAN 292 MAX 2520 MIN 34 CFSM 2.47 IN 33.58

PEAK DISCHARGE (BASE, 1,400 CFS)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
12-09	0345	7.38	1,560	7-14	1615	8.03	2,100
2-25	0900	7.32	1,510	9-27	0345	8.85	2,940
3-20	1715	8.44	2,500				

01388000 Ramapo River at Pompton Lakes, N. J.

LOCATION.--Lat 40°59'33", long 74°16'44", Passaic County, on right end of dam at pumping station in Pompton Lakes and 2.0 mi (3.2 km) upstream from mouth.

DRAINAGE AREA.--160 mi^2 (414 km^2).

PERIOD OF RECORD.--October 1921 to current year.

GAGE.--Water-stage recorder and concrete dam. Datum of gage is 201.08 ft (61.289 m) above mean sea level.

AVERAGE DISCHARGE.--54 years, 298 ft^3/s (8.439 m^3/s), 25.30 in/yr (643 mm/yr), adjusted for diversion since Dec. 1, 1953.

EXTREMES.--Current year: Maximum discharge, 3,380 ft^3/s (95.7 m^3/s) Sept. 27 (gage height, 2.03 ft or 0.619 m); minimum, 54 ft^3/s (1.53 m^3/s) Sept. 9 (gage height, 0.16 ft or 0.049 m).

Period of record: Maximum discharge, 12,300 ft^3/s (348 m^3/s) Mar. 12, 1936 (gage height, 3.56 ft or 1.085 m) from rating curve extended above 2,000 ft^3/s (56.6 m^3/s) on basis of theoretical weir formula; maximum gage height, 4.40 ft (1.341 m) Oct. 16, 1955; practically no flow for several days in October, November 1922, August, September 1923, July 1927, and Oct. 20, 1933.

REMARKS.--Records good. Diversion by North Jersey District Water Supply Commission to Wanaque Reservoir, since December 1953, for municipal supply (see Passaic River Basin, diversions). Slight regulation by Pompton Lakes, capacity 300,000,000 gal (1.136 hm^3).

REVISIONS (WATER YEARS).--WSP 1552: 1922(M), 1924-25, 1929-31(M), 1934-35(M). WRD-NJ 1970: CORRECTION 1968-69.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	382	117	124	274	479	584	454	198	216	124	180	124
2	264	117	429	198	417	518	382	225	244	103	162	117
3	207	110	571	103	382	454	802	254	225	96	145	96
4	171	103	359	76	337	394	1270	254	340	89	131	82
5	153	110	207	89	326	348	881	337	266	76	171	70
6	138	117	145	76	337	326	668	326	635	89	162	70
7	124	117	110	117	337	315	557	492	492	76	382	64
8	117	117	466	138	305	326	505	531	315	89	315	64
9	103	117	1340	518	284	284	442	417	254	82	225	59
10	96	110	965	849	254	264	394	370	207	89	180	70
11	89	96	598	640	244	254	359	326	180	76	153	64
12	82	96	429	612	244	264	326	315	315	76	138	82
13	76	284	337	683	254	348	305	466	757	505	124	189
14	76	359	274	772	254	315	284	948	584	1330	110	145
15	76	274	225	697	235	305	264	948	405	1870	96	103
16	216	225	359	571	275	305	264	697	315	1210	103	89
17	348	198	965	479	254	305	254	598	294	849	103	76
18	153	171	787	479	326	294	235	479	264	668	96	76
19	82	162	505	757	382	429	225	417	244	479	89	103
20	82	162	382	787	405	2330	227	359	235	382	76	110
21	96	198	305	640	370	2400	288	315	189	626	70	103
22	89	235	254	544	348	1380	191	284	145	612	70	96
23	110	198	198	479	417	965	184	264	131	417	64	284
24	131	180	216	442	849	772	259	235	110	315	70	772
25	131	180	370	544	1600	757	378	207	110	881	315	2750
26	131	180	348	849	1340	626	375	189	103	697	264	2770
27	131	171	189	742	898	505	290	171	96	442	153	3090
28	124	145	145	584	697	442	243	153	103	326	110	2090
29	117	138	124	640	---	394	220	138	145	274	89	1180
30	110	124	110	668	---	492	207	131	162	225	117	818
31	117	---	138	557	---	531	---	180	---	198	145	---
TOTAL	4322	4911	11974	15604	12800	18226	11653	11224	8081	13371	4608	15806
MEAN	139	164	386	503	457	588	388	362	269	431	149	527
MAX	382	359	1340	849	1600	2400	1270	948	757	1870	382	3090
MIN	76	96	110	76	225	254	184	131	96	76	64	59
(†)	21.1	0	148	66.6	0	0	0	0	0	0	0	0
MEAN‡	160	164	534	570	457	588	388	362	269	431	149	527
CFSM‡	1.00	1.02	3.34	3.56	2.86	3.68	2.42	2.26	1.68	2.69	.93	3.29
IN‡	1.16	1.14	3.85	4.11	2.97	4.24	2.71	2.61	1.88	3.11	1.07	3.67

CAL YR 1974 TOTAL 105805 MEAN 290 MAX 1340 MIN 26 MEAN‡ 304 CFSM‡ 1.90 IN‡ 26.13
WTR YR 1975 TOTAL 132580 MEAN 363 MAX 3090 MIN 59 MEAN‡ 383 CFSM‡ 2.39 IN‡ 32.52

PEAK DISCHARGE (BASE, 1,600 CFS)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
2-25	1400	1.33	1,680	7-15	0030	1.52	2,090
3-20	2145	1.83	2,850	9-27	1300	2.03	3,380

† Diversion, in cubic feet per second, at station to Wanaque Reservoir for municipal supply. Records of diversion furnished by North Jersey District Water Supply Commission.

‡ Adjusted for diversion.

PASSAIC RIVER BASIN

01388500 Pompton River at Pompton Plains, N. J.

LOCATION.--Lat 40°58'09", long 74°16'56", Passaic County, 800 ft (240 m) below confluence of Pequannock and Ramapo Rivers, 100 ft (30 m) upstream from Jackson Avenue Bridge, and 0.7 mi (1.1 km) east of Pompton Plains.

DRAINAGE AREA.--355 mi² (919 km²).

PERIOD OF RECORD.--March 1903 to December 1904, May 1940 to current year. Monthly discharge only for some periods, published in WSP 1302.

GAGE.--Water-stage recorder above concrete dam. Datum of gage is 160.00 ft (48.768 m) above mean sea level. March 1903 to December 1904, nonrecording gage on main spillway of dam 2,000 ft (610 m) upstream at different datum. May 1940 to September 1964 two water-stage recorders, each above a concrete dam about 2,000 ft (610 m) upstream at datum 14.46 ft (4.407 m) higher.

AVERAGE DISCHARGE.--36 years (1903-4, 1940-75), 476 ft³/s (13.48 m³/s), unadjusted.

EXTREMES.--Current year: Maximum discharge, 6,150 ft³/s (174 m³/s) Mar. 21 (gage height 16.48 ft or 5.023 m); minimum daily, 91 ft³/s (2.58 m³/s) Oct. 15.
Period of record: Maximum discharge observed 28,340 ft³/s (803 m³/s) Oct. 10, 1903 (gage height, 14.3 ft or 4.36 m, site and datum then in use), by computation of peak flow over dam; no flow Aug. 18-20, 1904.

REMARKS.--Records fair. Water diverted from reservoirs on Pequannock and Wanaque Rivers for municipal supply (see Passaic River Basin, diversions). Water also diverted at station (just above weir) by Passaic Valley Water Commission to Point View Reservoir for low-flow augmentation (see Passaic River Basin, diversions). Flow regulated by Canistear, Oak Ridge, Clinton, Charlotteburg, and Echo Lake Reservoirs on Pequannock River and by Greenwood Lake and Wanaque Reservoir on Wanaque River (see Passaic River Basin, reservoirs in). Some diurnal fluctuations at low flow caused by powerplant on Wanaque River. Water-stage recorder graph and record of pumpage furnished by Passaic Valley Water Commission. Records include releases from Point View Reservoir. Records of water quality for the current year are published in Section 2 of this report (sta 01389000).

COOPERATION.--Gage-height record collected in cooperation with Passaic Valley Water Commission.

REVISIONS (WATER YEARS).--WSP 1202: 1945(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	501	175	190	361	675	1310	763	291	294	172	321	188
2	391	175	792	306	631	1120	625	309	252	147	286	168
3	303	157	784	200	594	896	1250	331	232	131	245	159
4	249	149	567	169	519	721	2910	368	267	123	219	155
5	217	157	395	169	519	587	2150	539	259	111	297	146
6	195	175	328	161	558	558	1450	445	686	147	289	141
7	178	173	258	231	539	521	1110	504	578	117	651	137
8	164	167	747	270	485	579	953	647	389	121	484	133
9	147	170	1770	858	441	515	806	544	312	122	355	128
10	131	163	1290	1170	404	432	647	485	264	130	279	123
11	123	148	707	932	393	422	519	453	241	109	237	122
12	120	148	594	861	400	444	469	419	400	114	222	188
13	120	430	506	947	419	518	437	745	1050	1180	195	325
14	116	441	441	1040	396	498	386	1550	794	1470	186	231
15	91	365	386	913	386	504	358	1500	568	2730	165	167
16	318	315	620	740	375	481	361	1190	453	1810	193	151
17	453	285	1330	632	393	469	351	1000	430	1340	182	148
18	256	262	1040	669	489	469	273	727	372	1270	159	141
19	186	243	681	1010	563	742	259	636	338	1020	152	194
20	154	249	534	1080	594	6400	318	544	368	763	140	200
21	160	288	461	835	544	5410	300	453	285	1080	129	182
22	157	291	415	712	510	3400	284	372	259	1210	131	169
23	158	279	361	645	594	2400	247	328	215	825	121	580
24	188	258	354	594	1240	1760	318	303	186	734	125	1510
25	183	249	502	770	2500	1780	469	273	166	2810	452	4800
26	186	258	481	1170	2830	1490	497	249	154	2330	457	4370
27	195	240	325	967	2060	1170	411	238	144	1330	271	5100
28	198	206	279	763	1590	838	344	222	156	840	182	3300
29	181	206	290	877	---	686	325	185	193	617	153	2090
30	170	198	227	974	---	851	303	198	234	446	208	1620
31	173	---	236	733	---	1060	---	254	---	359	229	---
TOTAL	6342	7084	17911	21739	21721	37011	19873	16382	10537	25708	7715	26874
MEAN	205	233	578	701	776	1194	662	528	351	829	249	896
MAX	501	441	1770	1170	2830	5410	2910	1550	1050	2810	651	5100
MIN	91	148	190	161	375	422	247	185	144	109	121	122

CAL YR 1974 TOTAL 177374 MEAN 486 MAX 3030 MIN 60
WTR YR 1975 TOTAL 218817 MEAN 599 MAX 5410 MIN 91

PEAK DISCHARGE (BASE, 3,200 CFS)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
2-26	0345	13.39	3,210	7-25	0930	13.56	3,350
3-21	0100	16.48	6,150	9-27	1330	15.89	5,510
7-15	0100	13.41	3,230				

01389500 Passaic River at Little Falls, N. J.

LOCATION.--Lat 40°53'05", long 74°13'35", Passaic County, on left bank 0.6 mi (1.0 km) downstream from Beattie's Dam in Little Falls and 1.0 mi (1.6 km) upstream from Peckman River.

DRAINAGE AREA.--762 mi² (1,974 km²).

PERIOD OF RECORD.--September 1897 to current year. Monthly discharge only for September 1897, published in WSP 1302. Published as "at Patersen" September 1897 to September 1955.

GAGE.--Water-stage recorder. Datum of gage is 120.00 ft (36.576 m) above mean sea level (Passaic Valley Water
Commission bench mark). Prior to Jan. 8, 1933, nonrecording gage and Jan. 8, 1933, to Sept. 30, 1955, water-
stage recorder, at site 3.7 mi (6.0 km) downstream at mean sea level datum (New Jersey Geological Survey
bench mark).

AVERAGE DISCHARGE.--78 years, 1,163 ft³/s (32.94 m³/s), unadjusted.

EXTREMES.--Current year: Maximum discharge, 9,640 ft³/s (273 m³/s) Sept. 27 (gage height, 8.95 ft or 2,728 m); minimum, 60 ft³/s (1.70 m³/s) July 5 (gage height, 0.42 ft or 0.128 m); minimum daily, 236 ft³/s (6.68 m³/s) Sept. 10.
Period of record: Maximum daily discharge, 28,000 ft³/s (793 m³/s) Oct. 10, 1903; no flow July 3-5, 1904, July 16, 23, 1905.

REMARKS.--Records excellent. Diurnal fluctuation at medium and low flow caused by hydroelectric plant at
Beattie's Dam. Flow regulated by reservoirs in Rockaway, Pequannock, Wanaque, and Pompton River basin
(see Passaic River Basin, reservoirs in). Large diversions for municpal supply from Passaic River above
Beattie's Dam, and from Rockaway, Pequannock, and Wanaque Rivers (see Passaic River Basin, diversions).
In addition, the Commonwealth Water Co., diverts small amounts from Canoe Brook near Summit, average for
1975 was 2.6 ft³/s (0.074 m³/s), and from Passaic River, average for 1975 was 10.9 ft³/s (0.31 m³/s);
that company and the city of East Orange also divert water for municipal supply by pumping wells. Records
of water quality for the current year are published in Section 2 of this report.

COOPERATION.--Gage-height record collected in cooperation with Passaic Valley Water Commission.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1600	414	321	794	2000	3540	1870	766	1050	640	2080	489
2	1450	379	1610	839	1890	3080	1640	769	1170	464	1710	410
3	1230	329	1850	699	1730	2650	1900	811	1160	402	1290	371
4	828	300	1770	625	1480	2230	3180	882	1170	359	802	326
5	573	308	1640	578	1260	1810	3220	1360	1090	274	679	298
6	441	346	1520	542	1230	1440	2710	1500	2030	335	629	285
7	371	341	1340	705	1240	1190	2260	1770	2080	463	1090	259
8	350	325	1830	892	1170	1100	1960	1860	1900	378	1050	256
9	308	316	2730	1780	1060	1040	1660	1790	1860	346	851	254
10	300	300	2770	2180	944	870	1390	1620	1770	470	648	236
11	277	285	2470	2260	856	816	1170	1400	1600	415	524	242
12	266	289	2280	2250	799	834	1050	1130	1700	337	482	305
13	251	816	2100	2490	761	1090	965	1570	2330	1390	412	589
14	240	1030	1860	2580	881	1180	888	2690	2270	3720	391	481
15	240	970	1610	2430	778	1180	812	2790	2180	4500	344	346
16	862	851	1850	2240	752	1200	810	2710	2110	4880	390	278
17	1410	710	2610	2010	832	1170	794	2550	2010	5120	446	276
18	1170	605	2570	1950	1210	1120	722	2250	1810	4900	416	267
19	976	532	2390	2150	1540	1300	721	1960	1610	4480	375	336
20	794	508	2240	2340	1660	3810	727	1640	1560	3810	314	460
21	625	578	2050	2240	1670	5510	687	1290	1240	4010	268	476
22	508	678	1840	2120	1620	5890	626	989	908	4220	261	567
23	423	589	1600	2000	1660	5390	545	829	678	3750	256	1230
24	428	503	1340	1850	2410	4750	727	727	545	3170	288	2510
25	397	479	1270	1950	3550	4330	1270	701	584	4530	1050	5180
26	441	469	1250	2340	4340	3860	1470	639	594	4850	1320	7270
27	446	441	1010	2290	4370	3250	1430	575	471	4500	1290	9140
28	428	384	865	2150	3990	2670	1320	524	415	3980	1180	9570
29	405	354	748	2250	---	2220	1120	429	568	3460	970	8680
30	446	321	694	2320	---	2080	807	417	711	2940	768	7300
31	451	---	641	2140	---	2070	---	603	---	2470	637	---
TOTAL	18935	14750	52689	55984	47603	74670	40541	41561	41174	79563	23211	58687
MEAN	611	492	1700	1806	1700	2409	1351	1340	1372	2567	749	1956
MAX	1600	1030	2770	2580	4370	5890	3220	2790	2330	5120	2080	9570
MIN	240	285	321	542	752	816	545	417	415	274	256	236

CAL YR 1974 TOTAL 421140 MEAN 1154 MAX 4920 MIN 91
WTR YR 1975 TOTAL 549348 MEAN 1505 MAX 9570 MIN 236

PEAK DISCHARGE (BASE, 4,400 CFS)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
2-26	1015	5.92	4,510	7-25	2345	6.21	4,950
3-22	0215	6.86	5,990	9-27	0130	8.95	9,640
7-16	2145	6.65	5,660				

01391500 Saddle River at Lodi, N. J.

LOCATION.--Lat 40°53'25", long 74°04'51", Bergen County, on left bank 560 ft (171 m) upstream from Outwater Lane bridge in Lodi and 3.2 mi (5.1 km) upstream from mouth.

DRAINAGE AREA.--54.6 mi² (141.4 km²).

PERIOD OF RECORD.--September 1923 to current year.

GAGE.--Water-stage recorder. Concrete control since Nov. 2, 1938. Datum of gage is 25.00 ft (7.620 m) above mean sea level. Prior to Nov. 2, 1938, at site 560 ft (171 m) downstream at datum 2.54 ft (0.774 m) lower.

AVERAGE DISCHARGE.--52 years, 98.3 ft³/s (2.784 m³/s), 24.45 in/yr (621 mm/yr), adjusted for diversion since 1966.

EXTREMES.--Current year: Maximum discharge, 2,720 ft³/s (77.0 m³/s) July 14 (gage height, 7.97 ft or 2.429 m, from peak-stage indicator); minimum, 24 ft³/s (0.68 m³/s) Oct. 12 (gage height, 1.79 ft or 0.546 m).
Period of record: Maximum discharge, 3,770 ft³/s (107 m³/s) Sept. 12, 1971 (gage height, 10.98 ft or 3.347 m), from high-water mark in gage house; minimum, 1.0 ft³/s (0.028 m³/s) May 25, 1938 (gage height, 1.03 ft or 0.314 m), site and datum then in use; minimum daily, 6.0 ft³/s (0.17 m³/s) Aug. 4, 1930, Aug. 23, 1934.

REMARKS.--Records excellent. Occasional regulation at low flow by mills above station. Diversion above station by Hackensack Water Co., for municipal supply (records given herein). Records of water quality for the current year are published in Section 2 of this report.

REVISIONS (WATER YEARS).--WSP 781: Drainage area. WSP 1031: 1940(M). WSP 1552: 1929(M), 1936(M), 1938. WRD-NJ 1969: CORRECTIONS 1967. WRD-NJ 1970: CORRECTIONS 1968-69.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	64	47	35	83	114	117	112	89	287	59	83	64
2	52	45	358	77	106	110	106	101	89	55	77	69
3	43	43	119	61	99	106	450	95	74	52	71	61
4	40	45	72	58	95	99	264	117	71	50	74	56
5	41	49	53	55	99	93	145	148	85	46	103	53
6	42	52	47	52	119	95	131	108	495	65	93	52
7	40	46	46	117	117	95	121	207	169	95	277	52
8	32	43	408	81	106	103	114	108	97	55	101	58
9	33	42	282	340	97	89	110	93	81	57	85	55
10	33	42	112	188	91	85	106	91	74	56	74	47
11	31	42	83	123	87	87	103	85	71	47	71	46
12	33	42	72	110	81	119	101	81	246	42	69	108
13	33	193	65	234	97	148	97	367	385	200	64	101
14	35	85	59	182	87	118	95	645	140	650	62	55
15	34	65	61	186	87	133	93	186	101	480	58	52
16	349	58	238	89	93	128	97	222	89	242	93	47
17	179	56	363	79	114	119	91	140	91	336	77	46
18	76	53	193	175	169	103	89	112	83	157	65	45
19	95	35	91	242	179	189	93	106	108	126	58	93
20	52	37	79	182	143	730	87	99	133	118	53	79
21	46	71	76	117	114	259	81	89	76	234	52	131
22	41	49	85	103	101	163	76	85	67	117	56	74
23	39	39	74	97	145	148	76	77	64	95	55	417
24	37	39	62	91	399	143	154	77	61	87	65	710
25	41	41	99	287	403	166	203	72	65	750	412	1340
26	40	35	93	264	175	128	169	69	58	309	166	830
27	43	33	65	135	135	112	106	71	58	135	93	1120
28	41	35	62	119	121	108	101	65	61	117	71	367
29	39	35	64	210	---	112	95	61	83	103	64	266
30	39	35	62	154	---	193	89	71	103	93	117	196
31	53	---	58	119	---	138	---	95	---	87	81	---
TOTAL	1756	1532	3544	4222	3773	4528	3755	4032	3585	5107	2940	6690
MEAN	56.6	51.1	115	136	135	146	125	130	120	165	94.8	223
MAX	349	193	408	340	403	730	450	645	495	750	412	1340
MIN	31	33	35	52	81	85	76	61	58	42	52	45
(†)	7.9	3.2	7.5	8.6	0	0	.94	1.4	.98	1.7	1.3	1.2
MEAN‡	64.5	54.3	122	145	135	146	126	131	121	167	96.1	224
CFSM‡	1.18	.99	2.23	2.66	2.47	2.67	2.31	2.40	2.22	3.06	1.76	4.10
IN‡	1.36	1.11	2.59	3.06	2.57	3.08	2.58	2.78	2.46	3.51	2.03	4.58

CAL YR 1974 TOTAL 38154 MEAN 105 MAX 832 MIN 23 MEAN‡ 112 CFSM‡ 2.05 IN‡ 27.40
WTR YR 1975 TOTAL 45484 MEAN 125 MAX 1340 MIN 31 MEAN‡ 128 CFSM‡ 2.33 IN‡ 31.71

PEAK DISCHARGE (BASE, 600 CFS)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
12-08	2100	3.97	815	6-06	1700	3.70	680
12-16	2230	3.70	680	7-14	unknown	7.97	2,720
2-25	0115	3.61	635	7-25	0630	4.84	1,250
3-20	0545	4.40	1,030	8-25	0530	3.95	815
4-03	1600	3.89	775	9-27	0845	7.05	2,350
5-15	1330	7.77	2,640				

NOTE.--No gage-height record July 9-15.

† Diversion, equivalent in cubic feet per second, above station by Hackensack Water Co. Records of diversion furnished by Hackensack Water Co.
‡ Adjusted for diversion.

Reservoirs in Passaic River basin

01379990 **SPLITROCK RESERVOIR.**--Lat 40°57'40", long 74°27'45", Morris County, at dam on Beaver Brook, 2 mi (3 km) northeast of Hibernia, N.J. Drainage area, 5.50 mi² (14.2 km²). Period of record, September 1925 to September 1931, December 1948 to September 1950, October 1953 to current year in reports of Geological Survey. Monthend contents only 1925-31, 1948-50, published in WSP 1302. October 1950 to September 1953 in Special Report 16, New Jersey Department of Environmental Protection. Water-stage recorder. Datum of gage is at mean sea level.

Reservoir is formed by a concrete gravity dam with earth embankment; present dam constructed 1946-48 and sluice gate first closed Dec. 22, 1948. Prior to 1946, reservoir was formed by earthfill dam with crest about 20 ft (6 m) lower. Capacity at spillway level (elevation, 835 ft or 254 m), 3,310,000,000 gal (12.53 hm³). Flow is regulated by two 30-inch (0.8 m) sluice gates. Flow is released for diversion for municipal supply of Jersey City. Elevation record and capacity table furnished by Jersey City, Bureau of Water.

01380900 **BOONTON RESERVOIR.**--Lat 40°53', long 74°24', Morris County, at dam on Rockaway River at Boonton, N.J. Drainage area, 119 mi² (308 km²). Period of record, April 1904 to September 1950, October 1953 to current year in reports of Geological Survey. Monthend contents only 1904-50, published in WSP 1302. October 1950 to September 1953 in Special Report 16, New Jersey Department of Environmental Protection. Hook gage. Datum of gage is at mean sea level.

Reservoir is formed by a cyclopean masonry dam with earth wings; dam completed and storage began in 1904. Total capacity, 7,620,000,000 gal (28.84 hm³), at elevation 305.25 ft or 93.04 m (crest of spillway) of which 7,366,000,000 gal (27.88 hm³) is usable contents above elevation 259.75 ft or 79.17 m (sill of lowest outlet gate). Flow regulated by flashboards, 3 outlets in gatehouse at head of conduit and by two 48-inch (1.22 m) pipes (bottom of sluice pipes at elevation 205 ft or 62 m). Water is diverted from reservoir for municipal supply of Jersey City. Elevation record and data for capacity table furnished by Jersey City, Bureau of Water.

01382100 **CANISTEAR RESERVOIR.**--Lat 41°06'30", long 74°29'30", Sussex County, at dam on Pacock Brook, 1.8 mi (2.9 km) northeast of Stockholm, N.J. Drainage area, 5.6 mi² (14.5 km²). Period of record, October 1923 to September 1950, October 1953 to current year in reports of Geological Survey. Monthend contents 123-50, published in WSP 1302. October 1950 to September 1953 in Special Report 16, New Jersey Department of Environmental Protection. Staff gage. Datum of gage is at mean sea level.

Reservoir is formed by earth-embankment type dam, completed about 1896. Capacity at spillway level (elevation, 1,086.0 ft (331 m), 2,407,000,000 gal (9.110 hm³). Reservoir used for storage and water released for diversion at Macopin intake dam on Pequannock River prior to May 21, 1961, and for diversion at Charlotteburg Reservoir on Pequannock River since May 21, 1961, for municipal supply for city of Newark. Outflow is controlled mostly by operation of gates in pipes through dam. Elevation record and capacity table furnished by city of Newark, Division of Water Supply.

01382200 **OAK RIDGE RESERVOIR.**--Lat 41°02'30", long 74°30'10", Passaic County, at dam on Pequannock River, 0.9 mi (1.4 km) southwest of Oak Ridge, N.J. Drainage area, [illegible].3 mi² (70.[illegible] km²). Period of record, October 1923 to September 1950, October 1953 to current year in reports of Geological Survey. Monthend contents only 1924-50, published in WSP 1302. October 1950 to September 1953 in Special Report 16, New Jersey Environmental Protection. Staff gage. Datum of gage is at mean sea level.

Reservoir is formed by earthfill dam with concrete-core wall and ogee overflow section; dam constructed between 1889-92; dam raised 10 ft (3 m) during 1917-19. Capacity at spillway level (elevation, 846.0 ft or 257.86 m), 3,895,000,000 gal (14.74 hm³0. Reservoir used for storage and water released for diversion at Macopin intake dam on Pequannock River prior to May 21, 1961, and for diversion at Charlotteburg Reservoir on Pequannock River since May 21, 1961, for municipal supply of city of Newark. Outflow is controlled mostly by operation of gates in pipes through dam. Elevation record and capacity table furnished by city of Newark, Division of Water Supply.

01382300 **CLINTON RESERVOIR.**--Lat 41°04'30", long 74°27'00", Passaic County, at dam on Clinton Brook, 2.0 mi (3 km) north of Newfoundland, N.J. Drainage area, 10.5 mi² (27.2 km²). Period of record, October 1923 to September 1950, October 1953 to current year in reports of Geological Survey. Monthend contents only 1923-50, published in WSP 1302. October 1950 to September 1953 in Special Report 16, New Jersey Environmental Protection. Staff gage. Datum of gage is at mean sea level.

Reservoir is formed by earthfill dam constructed between 1889 and 1892. Capacity at spillway level (elevation, 992.0 ft or 302.36 m), 3,518,000,000 gal (13.32 hm³). Reservoir used for storage and water released for diversion at Macopin intake dam on Pequannock River prior to May 21, 1961, and for diversion at Charlotteburg Reservoir since May 21, 1961, for municipal supply of city of Newark. Outflow is controlled mostly by operation of gates in pipes through dam. Elevation record and capacity table furnished by city of Newark, Division of Water Supply.

01382380 **CHARLOTTEBURG RESERVOIR.**--Lat 41°01'34", long 74°25'30", Passaic County, at dam on Pequannock River, 1.1 mi (1.8 km) upstream from Macopin River, and 1.5 mi (2.4 km) southeast of Newfoundland, N.J. Drainage area, 56.2 mi² (145.6 km²). Period of record, May 1961 to current year. Water-stage record. Datum of gage is at mean sea level.

Reservoir is formed by concrete-masonry dam and earth embankment, with concrete spillway at elevation 738.00 ft (224.942 m). Spillway equipped with Bascule gate 5 ft (1.5 m) high. Storage began May 19, 1961. Capacity (elevation 743.00 ft or 226.466 m, top to Bascule gate) is 2,964,000,000 gal (11.22 hm³). No dead storage. Outflow is controlled by sluice and automatic Bascule gates. Water diverted from reservoir since May 21, 1961, for municipal supply of city of Newark. Elevation record and capacity table furnished by city of Newark, Division of Water Supply.

CORRECTION.--WRD-NJ 1974: Station number.

01382400 **ECHO LAKE.**--Lat 41°03'00", long 74°24'30", Passaic County, at Echo Lake Dam on Macopin River, 1.6 mi (2.6 km) north of Charlotteburg, N.J., and 1.9 mi (3.1 km) upstream from mouth. Drainage area, 4.35 mi² (11.27 km²). Period of record, October 1927 to September 1950, October 1953 to current year in report of Geological Survey. Monthend contents only 1928-50, published in WSP 1302. October 1950 to September 1953 in Special Report 16, New Jersey Department of Environmental Protection. Staff gage. Datum of gage is at mean sea level.

Lake is formed by earth-embankment type dam completed about 1925. Capacity at spillway level (elevation, 893.0 ft or 272.19 m), 1,583,000,000 gal (5.992 hm³) with provision for additional storage of 180,000,000 gal (681,300 m³) at elevation 894.9 ft (272.77 m) with flashboards. Usable contents, 1,045,000,000 gal (3.955 hm³) above elevation 880.0 ft (268.22 m). Lake used for storage and water released for diversion at Macopin intake dam on Pequannock River prior to May 21, 1961, and water diverted to Charlotteburg Reservoir on Pequannock River since May 21, 1961, for municipal supply of city of Newark. Outflow to Macopin River controlled by operation of gates in gatehouse at dam and water released through pipe and canal to Charlotteburg Reservoir. Elevation record and capacity table furnished by city of Newark, Division of Water Supply.

Reservoirs in Passaic River basin--Continued

01383000 GREENWOOD LAKE.--Lat 41°09'36", long 74°20'03", Passaic County, in gatehouse near right end of Greenwood Lake Dam on Wanaque River at Awosting. Drainage area, 27.1 mi² (7.02 km²). Period of record, June 1898 to November 1903, June 1907 to current year (gage heights only prior to October 1953). Water-stage recorder. Datum of gage is 608.86 ft (185.58 m) above mean sea level (New Jersey Geological Survey bench mark). Prior to Oct. 1, 1931, staff gage on former railroad bridge at site 100 ft (30 m) upstream at datum 89.75 ft (27.36 m) lower. Maximum contents during water year 7,375,000,000 gal (27.913 hm³) Dec. 9 (gage height, 10.83 ft or 3.30 m); minimum, 6,848,000,000 gal (25.920 hm³) Oct. 15 (gage height, 9.98 ft or 3.042 m). Maximum contents during period 1898-1903, 1907 to current year, 9,528,000,000 gal (36.068 hm³) Oct. 9-14, 1903 (gage height, 14.25 ft or 4.34 m, present datum); minimum, 3,160,000,000 gal (11.96 hm³) several days in November 1900 (gage height, 3.50 ft or 1.07 m, present datum).
Reservoir is formed by earthfill dam with concrete spillway; dam completed about 1837 and reconstruction completed in 1928 with crest of spillway 0.25 ft (0.08 m) lower. Usable capacity, 6,860,000,000 gal (25.96 hm³) between gage heights -4.00 ft or -1.22 m (sill of gate) and 10.00 ft 0.08 m, (crest of spillway). Dead storage, 7,140,000,000 gal (27.02 hm³). Outflow mostly regulated by two gates (3.5 by 5.0 ft or 1.1 m by 1.5 m). Records given herein represent usable capacity. Lake used for recreation.

01386990 WANAQUE RESERVOIR.--Lat 41°02'33", long 74°17'36", Passaic County, at Raymond Dam on Wanaque River at Wanaque. Drainage area, 90.4 mi² (234.1 km²). Period of record, February 1928 to September 1950, October 1953 to current year in reports of Geological Survey. Monthend contents only 1928-1950, published in WSP 1302. October 1950 to September 1953 in Special Report 16, New Jersey Department of Environmental Protection. Water-stage recorder. Datum of gage is at mean sea level (North Jersey District Water Supply Commission datum).
Reservoir is formed by earthfill with concrete-core wall main dam and seven secondary dams; dams completed in 1927 and storage began in March 1928. Total capacity at spillway level (elevation, 300.3 ft or 91.5 m) 28,010,000,000 gal (106.0 hm³). Capacity available by gravity at spillway level, 26,230,000,000 gal (99.28 hm³). Outflow mostly controlled by sluice gates in intake conduits in gage house. Water is diverted from reservoir for municipal supply. Diversion to reservoir from Post Brook and Ramapo River (see Passaic River Basin, diversions). Elevation record and capacity table furnished by North Jersey District Water Supply Commission.

MONTHEND ELEVATION OR GAGE HEIGHT AND CONTENTS, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

Date	Elevation (feet)	Contents (million gallons)	Change in contents (equivalent in cfs)	Elevation (feet)	Contents (million gallons)	Change in contents (equivalent in cfs)
	01379990 Splitrock Reservoir*			01380900 Boonton Reservoir*		
Sept. 30	835.10	3,325	-	307.62	8,236	-
Oct. 31	835.05	3,316	-.4	305.83	7,771	-23.2
Nov. 30	835.05	3,316	0	305.31	7,636	-7.0
Dec. 31	835.05	3,316	0	305.57	7,703	+3.3
CAL YR 1974	-	-	-.3	-	-	-.6
Jan. 31	835.10	3,325	+.4	305.83	7,771	+3.4
Feb. 28	835.05	3,316	-.5	305.97	7,807	+2.0
Mar. 31	835.10	3,325	+.4	305.81	7,776	-1.5
Apr. 30	835.05	3,316	-.5	305.69	7,734	-2.2
May 31	835.05	3,316	0	305.50	7,685	-2.4
June 30	835.05	3,316	0	305.67	7,729	+2.3
July 31	a835.10	3,325	+.4	305.74	7,747	+.9
Aug. 31	835.05	3,316	-.4	305.49	7,682	-3.2
Sept. 30	835.10	3,325	+.5	305.98	7,810	+6.6
WTR YR 1975	-	-	0	-	-	-1.8
	01382100 Canistear Reservoir†			01382200 Oak Ridge Reservoir†		
Sept. 30	1,086.10	2,417	-	829.40	1,781	-
Oct. 31	1,086.00	2,407	-.5	823.70	1,230	-27.5
Nov. 30	1,083.40	2,141	-13.7	821.70	1,059	-8.8
Dec. 31	1,086.20	2,427	+14.3	846.10	3,909	+142.2
CAL YR 1974	-	-	0	-	-	+.3
Jan. 31	1,086.20	2,427	0	846.10	3,909	0
Feb. 28	1,086.10	2,417	-.6	846.30	3,938	+1.6
Mar. 31	1,086.10	2,417	0	846.10	3,909	-1.4
Apr. 30	1,086.10	2,417	0	846.10	3,909	0
May 31	1,086.10	2,417	0	846.10	3,909	0
June 30	1,086.10	2,417	0	846.10	3,909	0
July 31	1,086.10	2,417	0	843.10	3,489	-21.0
Aug. 31	1,086.20	2,427	+.5	844.90	3,739	+12.5
Sept. 30	1,086.10	2,417	-.5	846.10	3,909	+8.8
WTR YR 1975	-	-	0	-	-	+9.0

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* Elevation at 0900.

† Elevation at 0800 on first day of following month.

a Gage height estimated.

Reservoirs in Passaic River basin--Continued

MONTHEND ELEVATION OR GAGE HEIGHT AND CONTENTS, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

Date	Elevation (feet)	Contents (million gallons)	Change in contents (equivalent in cfs)	Elevation (feet)	Contents (million gallons)	Change in contents (equivalent in cfs)
	01382300 Clinton Reservoir			01382550 Charlotteburg Reservoir†		
Sept. 30	983.60	2,444	-	734.50	2,063	-
Oct. 31	980.80	2,144	-15.0	734.45	2,058	-.2
Nov. 30	979.70	2,027	-6.0	735.60	2,167	+5.6
Dec. 31	991.80	3,492	+73.1	736.25	2,227	+3.0
CAL YR 1974	-	-	+.1	-	-	-3.0
Jan. 31	992.40	3,569	+3.8	743.30	3,002	+38.7
Feb. 28	992.20	3,544	-1.4	743.20	2,989	-.7
Mar. 31	992.10	3,531	-.6	741.95	2,842	-7.3
Apr. 30	992.10	3,531	0	739.10	2,525	-16.3
May 31	992.10	3,531	0	737.80	2,386	-6.9
June 30	992.10	3,531	0	742.80	2,941	+28.6
July 31	992.10	3,531	0	733.60	1,980	-48.0
Aug. 31	992.30	3,556	+1.2	736.15	2,219	+11.9
Sept. 30	992.20	3,544	-.6	743.05	2,971	+38.8
WTR YR 1975	-	-	+4.7	-	-	+3.8
	01382400 Echo Lake†			01383000 Greenwood Lake**		
Sept. 30	893.00	1,583	-	10.25	7,015	-
Oct. 31	892.90	1,574	-.4	10.10	6,922	-4.6
Nov. 30	893.00	1,583	+.5	10.20	6,984	+3.2
Dec. 31	893.20	1,601	+.9	10.25	7,015	+1.5
CAL YR 1974	-	-	0	-	-	-.4
Jan. 31	893.20	1,601	0	10.45	7,139	+6.2
Feb. 28	893.10	1,592	-.5	10.30	7,046	-5.1
Mar. 31	893.00	1,583	-.4	10.37	7,089	+2.1
Apr. 30	893.00	1,583	0	10.17	6,965	-6.4
May 31	893.00	1,583	0	10.20	6,984	+.9
June 30	893.10	1,592	+.5	10.11	6,928	-2.9
July 31	893.00	1,583	-.4	10.27	7,027	+4.9
Aug. 31	893.20	1,601	+.9	a10.42	7,120	+4.6
Sept. 30	893.10	1,592	-.5	10.58	7,220	+5.2
WTR YR 1975	-	-	0	-	-	+.9
	01386990 Wanaque Reservoir					
Sept. 30	289.63	20,581	-			
Oct. 31	287.92	19,492	-54.3			
Nov. 30	285.57	18,092	-72.2			
Dec. 31	295.54	24,548	+322			
CAL YR 1974	-	-	-6.0			
Jan. 31	302.30	29,550	+250			
Feb. 28	302.64	29,812	+14.5			
Mar. 31	302.50	29,710	-5.1			
Apr. 30	301.94	29,272	-22.6			
May 31	301.78	29,154	-5.9			
June 30	301.43	28,884	-13.9			
July 31	302.37	29,606	+36.0			
Aug. 31	299.30	27,250	-118			
Sept. 30	302.72	29,876	+135			
WTR YR 1975	-	-	+39.4			

** Gage height at 2400.

† Elevation at 0800 on first day of following month.

a Gage height estimated.

Diversions in Passaic River basin

01380800 Jersey City diverts water from Boonton Reservoir on Rockaway River at Boonton for municipal supply. Records furnished by Jersey City, Bureau of Water.

01382490 City of Newark diverts water from reservoir formed by Macopin intake dam on Pequannock River and since May 21, 1961, also from Charlotteburg Reservoir on Pequannock River (diversion No. 01382370) for municipal supply. Records furnished by city of Newark, Division of Water Supply.

North Jersey District Water Supply Commission diverts water for municipal supply from Wanaque Reservoir on Wanaque River (01386980). In addition to water from Wanaque Reservoir, the Commission stores water diverted into Wanaque Reservoir from Post Brook near Wanaque (01387020) and Ramapo River by pumping from Pompton Lakes (01387990). Figures of diversion from Wanaque Reservoir given herein show total diversion from Passaic River basin by North Jersey District Water Supply Commission. Records furnished by North Jersey District Water Supply Commission.

01388500 Passaic Valley Water Commission supplements the dependable yield of its supply at Little Falls by diverting water at high flows at the Jackson Avenue Pumping Station into Point View Reservoir on Haycock Brook for release as required to sustain minimum flow requirements. Also water may be released into Haycock Brook for maintenance of flow in that stream. These diversions and releases occur upstream of Pompton Plains gaging station. Records furnished by Passaic Valley Water Commission.

01389490 The Passaic Valley Water Commission diverts water from Passaic River above Beattie's Dam at Little Falls for municipal supply. Records furnished by Passaic Valley Water Commission.

DIVERSIONS, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

Month	Jersey City	Newark	North Jersey District Water Supply Commission		Passaic Valley Water Commission
			From Wanaque Reservoir	From Ramapo River to Wanaque Reservoir	
October	89.6	114	150	21.1	75.1
November	93.6	111	154	0	74.7
December	93.0	110	155	148	59.5
CAL YR 1974	99.8	115	153	14.1	77.9
January	85.2	111	150	66.6	65.8
February	83.1	112	134	0	76.7
March	93.6	109	127	0	74.7
April	95.2	116	129	0	73.5
May	107	115	145	0	72.6
June	107	119	158	0	73.1
July	106	119	148	0	72.4
August	112	131	168	0	77.0
September	114	114	143	0	74.5
WTR YR 1975	98.3	115	147	19.6	72.3

NOTE.--Records for diversion from Post Brook to Wanaque Reservoir not available for this water year. Estimated diversion of 3.5 ft³/s (0.099 m³/s) for year made on the basis of records for West Brook near Wanaque.

Diversions from and releases to Pompton River by Point View Reservoir

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

	Stored	*Released
October	0	0
November	0	0
December	0	0
CAL YR 1974	0	0
January	0	0
February	0	0
March	0	0
April	0	0
May	0	0
June	0	0
July	0	0
August	0	0
September	0	0
WTR YR 1975	0	0

* Water released into Haycock Brook to maintain minimum flow conditions not included in these figures.

01393450 Elizabeth River at Ursino Lake, Elizabeth, N. J.

LOCATION.--Lat 40°40'30", long 74°13'20", Union County, on left bank at Ursino Lake Dam 75 ft (23 m) upstream of bridge on Trotters Lane and 3.8 mi (6.1 km) upstream from mouth.

DRAINAGE AREA.--16.9 mi² (43.8 km²).

PERIOD OF RECORD.--October 1921 to current year.

GAGE.--Water-stage recorder and concrete control. Datum of gage is at mean sea level (levels by Corps of Engineers). Prior to Oct. 1, 1922, nonrecording gage at site 2,800 ft (850 m) downstream at datum 4.14 ft (1.262 m) higher and Oct. 1, 1922, to May 18, 1923, at same site at datum 5.23 ft (1.594 m) higher. May 19, 1923 to Dec. 27, 1972, at site 2,800 ft (850 m) downstream at datum 5.23 ft (1.594 m) higher and published as "Elizabeth River at Elizabeth" (sta 01393500).

AVERAGE DISCHARGE.--54 years, 25.5 ft³/s (0.722 m³/s), unadjusted.

EXTREMES.--Current year: Maximum discharge, 2,940 ft³/s (83.3 m³/s) July 15 (elevation 24.48 ft or 7.462 m, from crest-stage gage); minimum daily, 3.5 ft³/s (0.10 m³/s) Apr. 19, July 6.
Period of record: Maximum discharge, 4,110 ft³/s (116 m³/s) Aug. 28, 1971 (gage height, 18.7 ft or 5.70 m, from floodmark, site and datum then in use), from rating curve extended above 1,100 ft³/s (31.2 m³/s) on basis of contracted-opening measurement of peak flow; no flow many times.

REMARKS.--Records fair. Diversion by pumpage from Hammock well field, in Union, for municipal supply by Elizabethtown Water Co., probably reduces the flow past the station. Records of water quality for the current year are published in Section 2 of this report.

REVISIONS (WATER YEARS).--WSP 1552: Drainage area, 1922-23, 1927-29(M), 1932, 1933-34(M), 1938(P), 1942(M), 1944(P), 1945(M), 1948(P), 1952-53(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12	4.1	12	34	11	13	12	7.3	150	10	14	6.7
2	9.7	4.5	203	8.8	9.7	10	12	16	60	6.2	11	8.3
3	9.1	3.6	25	8.4	11	11	98	6.8	20	5.4	9.7	8.3
4	9.1	4.5	13	7.5	10	12	20	40	9.2	8.8	10	8.6
5	7.5	5.5	9.7	6.2	30	12	12	120	15	6.0	17	8.6
6	6.2	6.4	8.8	7.5	40	11	9.7	25	175	3.5	15	9.4
7	8.1	4.5	8.4	81	17	13	10	34	80	15	52	6.4
8	8.4	4.6	133	14	11	10	11	25	19	12	10	7.6
9	8.4	4.5	31	132	9.1	7.8	10	11	17	20	9.4	7.9
10	8.1	4.6	16	20	9.7	10	9.6	10	12	38	8.3	8.3
11	8.1	7.0	11	26	10	13	11	6.0	7.8	16	11	7.9
12	7.0	22	10	10	11	52	4.5	11	90	18	11	30
13	5.3	34	9.4	132	12	23	6.0	50	160	227	9.7	14
14	6.3	10	8.4	28	14	26	8.5	235	80	184	9.7	6.1
15	7.5	8.4	6.8	15	15	52	7.0	40	25	214	8.3	6.7
16	113	6.8	104	13	24	15	11	66	17	110	57	7.9
17	42	5.2	48	11	42	13	7.4	45	21	32	9.7	7.3
18	18	6.3	28	110	44	12	6.4	24	13	24	9.0	7.9
19	18	7.3	13	48	41	119	3.5	16	15	18	9.7	62
20	7.5	25	11	45	17	103	4.5	14	44	17	7.9	27
21	8.1	19	9.1	17	13	27	10	10	15	78	7.9	41
22	8.8	8.4	7.5	15	10	29	4.6	6.2	4.0	20	17	10
23	8.8	6.8	7.8	13	54	17	5.4	7.0	11	16	7.6	353
24	9.1	5.7	7.3	12	105	44	42	5.0	10	15	43	333
25	13	6.8	23	79	48	20	58	7.0	24	251	154	319
26	8.4	7.0	8.1	21	23	14	44	11	7.0	36	76	380
27	6.2	6.5	7.8	13	16	12	14	12	5.8	16	15	192
28	7.0	5.3	6.8	12	14	18	19	9.0	20	19	11	31
29	8.1	5.3	6.2	91	---	13	6.5	6.0	70	14	9.7	18
30	7.8	5.2	7.0	19	---	59	7.4	7.0	40	14	23	16
31	5.5	---	8.1	14	---	14	---	10	---	14	7.6	---
TOTAL	402.1	254.8	800.2	1063.4	751.5	796.8	473.0	886.3	1236.8	1473.9	671.2	1949.9
MEAN	13.0	8.49	25.8	34.3	26.8	25.7	15.8	28.6	41.2	47.5	21.7	65.0
MAX	113	34	203	132	105	119	98	235	175	251	154	380
MIN	5.3	3.6	6.2	6.2	9.1	7.8	3.5	5.0	4.0	3.5	7.6	6.1

CAL YR 1974 TOTAL 8757.9 MEAN 24.0 MAX 248 MIN 3.6
WTR YR 1975 TOTAL 10759.9 MEAN 29.5 MAX 380 MIN 3.5

NOTE.--No gage-height record Apr. 10 to July 10.

PEAK DISCHARGE (BASE, 1,500 CFS)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
7-15	1245	24.48	2,940	9-26	1800	24.42	2,910
7-25	0530	23.43	2,440				

01394500 Rahway River near Springfield, N. J.

LOCATION.--Lat 40°41'11", long 74°18'44", Union County, on left bank 50 ft (15 m) downstream from bridge on U.S. Highway 22, 100 ft (30 m) downstream from Pope Brook, and 1.5 mi (2.4 km) south of Springfield.

DRAINAGE AREA.--25.5 mi² (66.0 km²).

PERIOD OF RECORD.--July 1938 to current year.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 66.17 ft (20.169 m) above mean sea level.

AVERAGE DISCHARGE.--37 years, 27.5 ft³/s (0.779 m³/s).

EXTREMES.--Current year: Maximum discharge, 3,110 ft³/s (88.1 m³/s) July 14 (gage height, 8.31 ft or 2.533 m), from rating extended above 1,600 ft³/s (35.2 m³/s) on basis of slope-area measurement of peak flow; minimum, 4.0 ft³/s (0.113 m³/s) Nov. 3 (gage height, 1.29 ft or 0.393 m).

Period of record: Maximum discharge, 5,430 ft³/s (154 m³/s) Aug. 2, 1973 (gage height 9.76 ft or 2.975 m, from floodmark), from rating extended above 1,600 ft³/s (35.2 m³/s) on basis of slope-area measurement of peak flow; minimum, 0.1 ft³/s (0.003 m³/s) Sept. 11, 1966.

REMARKS.--Records good. Water for municipal supply diverted from river by city of Orange. The flow past this station is affected by diversions by pumpage from wells by Orange, South Orange, Short Hills Water Co., and Springfield station of Elizabethtown Water Co.

REVISIONS (WATER YEARS).--WSP 1622: 1945. WRD-NJ 1973: 1938(M), 1968(M), 1971(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.2	5.5	10	24	18	17	15	8.3	190	8.4	13	6.2
2	6.0	6.0	293	7.8	14	14	13	22	19	8.2	11	6.8
3	5.7	5.0	27	6.7	13	13	106	8.3	14	16	10	6.5
4	5.5	5.7	16	6.7	14	12	34	131	10	8.4	10	6.1
5	5.3	7.2	11	6.2	18	11	21	92	57	6.5	15	6.8
6	4.8	8.8	9.4	6.7	33	10	24	28	301	8.0	12	8.5
7	5.0	6.0	7.2	64	30	12	24	47	61	30	52	6.7
8	5.0	6.0	344	11	23	11	12	19	22	17	11	7.3
9	5.3	6.0	71	195	14	8.3	13	19	16	23	8.8	6.2
10	5.0	6.0	23	33	10	9.4	11	14	12	60	7.5	5.2
11	5.0	6.0	14	34	11	11	11	9.9	11	15	7.8	5.8
12	5.0	28	12	28	8.6	67	10	10	196	7.0	8.2	25
13	5.0	57	9.9	127	13	27	8.8	126	180	500	7.7	9.6
14	5.5	6.0	7.8	53	12	19	8.3	258	33	1130	7.9	4.7
15	5.9	6.2	6.7	22	13	43	8.3	37	23	1010	7.1	4.9
16	250	5.3	338	17	15	21	11	112	18	91	42	5.4
17	37	4.8	136	14	25	18	8.3	34	17	60	8.2	6.6
18	12	5.3	31	129	75	16	7.2	21	14	63	7.2	5.5
19	7.8	5.5	19	82	67	165	9.4	16	55	25	6.7	37
20	6.2	14	14	77	50	160	6.2	16	36	30	5.3	9.0
21	6.7	17	12	27	22	43	6.0	14	12	206	5.6	23
22	8.8	6.0	9.9	22	17	27	7.2	13	9.5	25	6.4	7.6
23	9.4	5.0	8.8	19	57	24	6.7	11	10	18	7.3	300
24	8.8	4.8	8.3	16	290	39	73	10	31	18	30	485
25	10	6.0	20	74	106	30	61	23	15	719	321	617
26	9.9	5.3	7.8	53	36	19	43	8.8	10	60	124	697
27	8.3	4.8	7.2	20	26	16	12	9.5	10	31	14	619
28	10	4.8	6.7	18	21	14	9.9	8.7	116	22	7.9	44
29	11	5.3	6.5	80	---	12	8.8	7.7	39	18	7.7	19
30	11	5.7	6.5	50	---	56	7.8	13	14	17	17	13
31	13	---	7.2	28	---	22	---	13	---	15	6.8	---
TOTAL	500.1	265.0	1500.9	1343.1	1051.6	966.7	596.9	1160.2	1551.5	4265.5	806.1	3004.4
MEAN	16.1	8.83	48.4	43.3	37.6	31.2	19.9	37.4	51.7	138	26.0	100
MAX	250	57	344	195	290	165	106	258	301	1130	321	697
MIN	4.8	4.8	6.5	6.2	8.6	8.3	6.0	7.7	9.5	6.5	5.3	4.7

CAL YR 1974 TOTAL 12440.0 MEAN 34.1 MAX 520 MIN 3.1
WTR YR 1975 TOTAL 17012.0 MEAN 46.6 MAX 1130 MIN 4.7

PEAK DISCHARGE (BASE 1,000 CFS)

DATE	TIME	G.H.	DISCHARGE
7-14	1615	8.31	3,110
7-25	0430	6.02	1,290
9-26	1630	6.49	1,490

01395000 Rahway River at Rahway, N. J.

LOCATION.--Lat 40°37'05", long 74°17'00", Union County, on left bank 100 ft (30 m) upstream from St. Georges Avenue bridge in Rahway and 0.9 mi (1.4 km) upstream from Robinsons Branch.

DRAINAGE AREA.--40.9 mi² (105.9 km²).

PERIOD OF RECORD.--July 1908 to April 1915 (gage heights and discharge measurements only), October 1921 to current year.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 8.77 ft (2.673 m) above mean sea level. Prior to Aug. 25, 1934, nonrecording gage at site 40 ft (12 m) downstream from Church Street and 1,500 ft (460 m) downstream from present site at datum 2.77 ft (0.844 m) lower.

AVERAGE DISCHARGE.--54 years (1921-75), 46.3 ft³/s (1.311 m³/s), unadjusted.

EXTREMES.--Current year: Maximum discharge, 5,070 ft³/s (144 m³/s) July 15 (gage height, 7.62 ft or 2.323 m) from rating curve extended above 2,000 ft³/s (57 m³/s); no flow part of Oct. 13.
Period of record: Maximum discharge, 5,420 ft³/s (153 m³/s) Aug. 2, 1973 (gage height, 7.88 ft or 2.402 m) from rating curve extended above 2,000 ft³/s (57 m³/s); no flow for part or all of some days in many years.

REMARKS.--Records good except those below 3.0 ft³/s (0.08 m³/s), which are fair. Water for municipal supply diverted from river by Rahway and Orange. The flow past this station is affected by diversions by pumpage from wells by Orange, South Orange, Short Hills Water Co., and Springfield station of Elizabethtown Water Co.

REVISIONS (WATER YEARS).--WSP 781: Drainage area. WSP 1552: 1922-23(M), 1924, 1930-31(M), 1937.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	21	10	5.0	36	26	30	25	17	365	18	21	8.3
2	15	3.0	370	24	20	24	22	25	85	14	12	16
3	12	7.0	139	13	18	17	121	15	28	12	16	9.0
4	7.0	2.3	26	12	18	20	93	126	21	21	25	7.6
5	1.2	4.5	19	11	24	19	35	288	45	10	17	9.0
6	.30	7.0	13	9.0	51	19	27	52	428	8.3	23	6.0
7	10	8.3	12	98	46	13	30	83	182	36	59	9.0
8	4.1	5.5	192	39	31	20	26	37	45	28	30	17
9	5.5	1.5	343	223	19	12	23	26	37	48	10	9.7
10	4.5	1.5	46	116	15	13	21	24	19	87	11	8.3
11	4.5	1.2	25	49	16	14	25	12	17	20	19	8.3
12	.50	19	19	40	12	66	10	30	223	5.5	12	14
13	.80	129	14	134	18	102	14	157	383	486	7.0	40
14	8.3	18	12	160	18	34	20	570	77	1670	12	7.6
15	3.7	8.3	9.7	43	19	62	16	85	37	3420	10	5.5
16	296	9.0	219	27	21	55	25	154	49	486	42	17
17	189	6.5	469	27	40	28	17	71	32	102	31	8.3
18	28	5.0	71	85	114	24	15	39	26	91	19	8.3
19	1.5	7.0	35	219	102	83	8.3	37	30	46	11	52
20	9.7	12	25	151	66	365	10	25	107	39	10	35
21	12	36	20	57	36	119	23	22	16	338	6.5	34
22	9.0	14	16	39	27	49	11	14	6.5	81	7.0	26
23	6.5	7.6	12	35	75	51	12	17	26	34	2.0	388
24	7.0	5.0	13	28	374	45	95	3.0	22	14	20	630
25	7.0	4.1	21	83	304	71	119	24	57	708	304	945
26	6.0	7.0	26	111	75	35	91	25	17	296	219	1170
27	7.0	4.5	12	39	43	24	31	28	13	59	35	1470
28	8.3	5.0	12	25	34	10	35	16	43	40	22	198
29	7.6	4.1	10	121	---	20	20	13	163	34	14	54
30	6.5	3.7	9.7	83	---	83	17	17	46	28	17	37
31	6.5	---	9.7	32	---	54	---	34	---	22	18	---
TOTAL	706	356	2225	2169	1662	1581	1037	2086	2645	8301	1061	5247
MEAN	22.8	11.9	71.8	70.0	59.4	51.0	34.6	67.3	88.2	268	34.2	175
MAX	296	129	469	223	374	365	121	570	428	3420	304	1470
MIN	.30	1.2	5.0	9.0	12	10	8.3	3.0	6.5	5.5	2.0	5.5

CAL YR 1974 TOTAL 18411.70 MEAN 50.4 MAX 1090 MIN .10
WTR YR 1975 TOTAL 29079.70 MEAN 79.7 MAX 3420 MIN .30

PEAK DISCHARGE (BASE, 600 CFS)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
12-17	0300	3.44	744	7-25	2030	4.42	1,450
5-14	0745	3.52	792	9-27	0430	5.19	2,140
7-15	0800	7.62	5,070				

01396000 Robinsons Branch Rahway River at Rahway, N. J.

LOCATION.--Lat 40°36'20", long 74°17'57", Union County, on right bank of Milton Lake, 2,000 ft (610 m) upstream from Madison Avenue in Rahway, 3,200 ft (980 m) downstream from Middlesex Reservoir Dam, and 1.6 mi (2.6 km) upstream from mouth.

DRAINAGE AREA.--21.6 mi² (55.9 km²).

PERIOD OF RECORD.--September 1939 to current year.

GAGE.--Water-stage recorder above Milton Lake Dam. Datum of gage is 19.99 ft (6.093 m) above mean sea level (New Jersey Geological Survey bench mark).

AVERAGE DISCHARGE.--36 years, 24.5 ft³/s (0.694 m³/s), unadjusted.

EXTREMES.--Current year: Maximum discharge, 3,110 ft³/s (88.1 m³/s) July 15 (gage height, 5.83 ft or 1.777 m) from rating curve extended above 750 ft³/s (21 m³/s) on basis of computation of flow over dam; minimum, 3.7 ft³/s (0.10 m³/s) Sept. 3, 4 (gage height, 3.25 ft or 0.991 m).

Period of record: Maximum discharge, 3,110 ft³/s (88.1 m³/s) July 15, 1975 (gage height, 5.85 ft or 1.777 m) from rating curve extended above 750 ft³/s (21 m³/s) on basis of flow over dam; maximum gage height, 6.02 ft (1.835 m) Aug. 15, 1969; no flow many times.

REMARKS.--Records fair except those below 10 ft³/s (0.28 m³/s), which are poor. Records given herein include flow over main dam, flow through bypass channel, and leakage through dam. Water diverted for municipal supply by Middlesex Water Co., from Middlesex Reservoir, capacity, 300,000,000 gal (1.136 hm³) 3,200 ft (980 m) above station (records given herein).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11	11	10	36	17	22	19	12	190	56	6.9	5.2
2	8.1	14	226	26	14	17	17	12	90	27	6.9	5.7
3	7.4	14	68	14	11	13	85	12	17	27	6.2	5.7
4	5.8	17	18	13	9.6	11	42	55	17	27	6.2	4.7
5	5.8	22	11	13	15	9.4	17	155	25	27	15	5.2
6	6.1	24	10	11	34	11	13	70	230	24	7.7	5.7
7	7.5	15	9.8	75	35	11	11	45	180	24	11	5.7
8	6.9	9.4	160	35	23	13	11	30	50	24	6.9	5.7
9	7.9	6.8	189	178	16	6.9	9.4	19	22	32	6.2	5.7
10	7.0	7.7	28	63	11	8.5	8.5	16	18	24	5.7	4.2
11	6.6	8.9	15	32	10	9.4	9.4	15	18	24	5.7	4.7
12	7.0	16	12	21	12	55	11	19	40	24	6.2	22
13	8.3	59	11	118	10	64	11	50	210	243	6.2	19
14	8.4	13	11	90	10	40	12	260	120	742	5.2	5.7
15	11	8.0	8.5	25	11	58	11	150	25	1240	4.2	4.2
16	203	7.2	219	16	15	44	14	45	20	618	24	4.2
17	90	7.2	212	13	34	30	11	31	19	257	8.5	4.7
18	19	7.2	51	82	105	19	10	23	18	72	5.7	4.2
19	9.1	7.8	20	115	100	115	10	20	27	19	5.2	34
20	8.0	13	15	147	98	222	10	15	40	30	4.7	40
21	6.6	20	13	39	36	67	10	14	27	392	4.7	27
22	6.9	11	11	24	24	37	11	14	24	103	5.7	13
23	7.3	7.3	9.4	22	86	42	11	14	24	22	5.2	278
24	7.6	8.5	11	22	370	42	45	14	30	11	15	505
25	9.1	12	20	72	243	53	63	15	27	155	142	718
26	13	12	14	74	64	32	55	15	27	119	173	868
27	11	7.8	11	30	32	17	30	15	24	24	47	630
28	6.8	8.1	11	20	27	11	17	15	24	15	8.5	236
29	7.5	8.2	10	137	---	13	12	15	32	9.4	6.2	50
30	7.9	7.8	11	65	---	61	12	15	136	8.5	15	19
31	8.9	---	11	25	---	30	---	26	---	7.7	7.7	---
TOTAL	535.7	391.4	1353.4	1653	1430.6	1184.2	608.3	1220	1751	4427.6	584.3	3540.2
MEAN	17.3	13.0	43.7	53.3	51.1	38.2	20.3	39.4	58.4	143	18.8	118
MAX	203	59	226	178	370	222	85	260	230	1240	173	868
MIN	5.8	6.8	8.5	11	9.6	6.9	8.5	12	17	7.7	4.2	4.2
(†)	30.5	30.4	29.8	27.9	30.7	29.9	31.3	31.5	31.2	30.4	31.0	28.0

CAL YR 1974 TOTAL 9943.6 MEAN 27.2 MAX 329 MIN 1.8 † 30.8
WTR YR 1975 TOTAL 18680.2 MEAN 51.2 MAX 1240 MIN 4.2 † 30.2

PEAK DISCHARGE (BASE, 450 CFS)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
12-02	0630	4.30	478	7-15	0730	5.83	3,110
12-08	1345	4.27	450	7-21	0330	4.54	905
12-16	1645	4.46	641	9-26	1615	5.31	2,020
2-24	0545	4.21	492				

NOTE.--No gage-height record Apr. 13 to June 18.

† Diversion, in cubic feet per second, by Middlesex Water Co. from reservoir above station.

RARITAN RIVER BASIN

01396500 South Branch Raritan River near High Bridge, N. J.

LOCATION.--Lat 40°40'40", long 74°52'46", Hunterdon County, on left bank 1.0 mi (1.6 km) northeast of High Bridge and 4.4 mi (7.1 km) upstream from Spruce Run.

DRAINAGE AREA.--65.3 mi² (169.1 km²).

PERIOD OF RECORD.--October 1918 to current year. Monthly discharge only for some periods, published in WSP 1302.

GAGE.--Water-stage recorder. Concrete control since Sept. 28, 1930. Datum of gage is 282.10 ft (85.984 m) above mean sea level (New Jersey Geological Survey bench mark). Prior to Sept. 30, 1921, reference point at same site and datum.

AVERAGE DISCHARGE.--57 years, 119 ft³/s (3.370 m³/s), 24.75 in/yr (629 mm/yr).

EXTREMES.--Current year: Maximum discharge, 2,300 ft³/s (65.1 m³/s) July 25 (gage height, 9.72 ft or 2.963 m); minimum, 55 ft³/s (1.56 m³/s) Nov. 11 (gage height, 5.99 ft or 1.826 m).
Period of record: Maximum discharge, 5,160 ft³/s (146 m³/s) Mar. 15, 1940 (gage height, 11.78 ft or 3.591 m) from rating curve extended above 1,600 ft³/s (45 m³/s); minimum, 6.6 ft³/s (0.19 m³/s) Oct. 11, 1930; minimum daily, 13 ft³/s (0.37 m³/s) Aug. 11, 1966.

REMARKS.--Records fair. Slight diurnal fluctuation caused by small powerplant above station. Records of water quality for the current year are published in Section 2 of this report.

REVISIONS (WATER YEARS).--WSP 601: 1924. WSP 781: Drainage area. WSP 1552: 1919(M), 1920(M), 1921, 1923, 1924(M), 1927-28(M), 1934(M), 1941(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	219	63	75	100	210	200	182	126	307	109	166	82
2	169	62	460	98	190	185	170	144	170	94	151	78
3	128	62	243	100	170	190	469	133	126	89	142	77
4	111	62	160	105	155	180	326	245	116	87	150	70
5	102	64	120	95	160	170	224	335	144	81	177	69
6	95	69	110	92	180	160	208	191	432	80	145	70
7	90	63	98	110	190	150	196	296	316	90	171	69
8	86	60	647	191	150	160	186	193	178	79	143	70
9	82	57	481	621	140	145	175	166	146	101	125	72
10	77	55	265	278	130	141	167	156	129	100	114	61
11	76	55	200	248	125	134	162	168	117	79	110	60
12	70	69	180	231	130	159	155	160	327	74	104	85
13	69	398	160	282	145	205	147	393	388	1270	102	163
14	66	185	160	245	144	155	144	501	208	807	106	86
15	66	147	177	223	133	150	141	251	159	466	97	69
16	296	113	352	200	136	158	160	300	172	455	123	67
17	270	94	347	190	163	167	137	239	175	305	114	66
18	202	85	231	265	250	157	130	206	166	237	103	62
19	146	80	190	351	292	372	139	190	158	204	93	72
20	115	84	160	303	245	1150	134	172	186	217	86	85
21	96	107	140	225	200	422	121	162	128	591	82	125
22	87	87	130	200	180	309	115	154	115	244	81	92
23	84	75	120	190	268	278	113	146	108	193	77	187
24	78	72	120	180	479	272	159	135	103	174	97	675
25	74	76	125	368	589	302	262	132	115	1390	553	985
26	72	72	135	437	288	236	266	129	101	411	198	468
27	69	63	125	245	244	206	166	125	98	288	125	365
28	66	67	120	226	229	195	139	113	150	249	96	239
29	66	66	118	326	---	193	132	105	176	219	87	198
30	64	61	115	273	---	255	126	118	162	198	101	177
31	64	---	112	228	---	211	---	200	---	179	98	---
TOTAL	3349	2671	6146	7166	5893	7371	5339	6052	5354	9160	4117	5242
MEAN	108	89.0	198	231	210	238	178	195	178	295	133	175
MAX	296	398	647	621	589	1150	469	501	432	1390	553	985
MIN	64	55	75	92	125	139	113	105	98	74	77	60
CFSM	1.65	1.36	3.03	3.54	3.22	3.64	2.73	2.99	2.73	4.52	2.04	2.68
IN.	1.91	1.52	3.50	4.08	3.36	4.20	3.04	3.45	3.05	5.22	2.35	2.99

CAL YR 1974 TOTAL 56139 MEAN 154 MAX 746 MIN 42 CFSM 2.36 IN 31.98
WTR YR 1975 TOTAL 67860 MEAN 186 MAX 1390 MIN 55 CFSM 2.85 IN 38.66

PEAK DISCHARGE (BASE, 1,000 CFS)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
12-08	2145	8.66	1,190	7-25	1200	9.72	2,300
1-09	1400	8.47	1,030	8-25	0200	8.46	1,020
3-20	0500	9.19	1,690	9-25	0530	8.91	1,410
7-13	1800	9.52	2,060				

01396800 Spruce Run at Clinton, N. J.

LOCATION.--Lat 40°38'21", long 74°54'58", Hunterdon County, on right bank 1,800 ft (550 m) downstream from dam at Spruce Run Reservoir 0.2 mi (0.3 km) north of Clinton, 0.3 mi (0.5 km) upstream from mouth, and 2.2 mi (3.5 km) southwest of High Bridge.

DRAINAGE AREA.--41.3 mi² (107.0 km²).

PERIOD OF RECORD.--May 1959 to current year.

GAGE.--Water-stage recorder. Concrete control since Mar. 15, 1964. Datum of gage is 193.30 ft (58.918 m) above mean sea level. May to Nov. 24, 1959, nonrecording gage; Nov. 25, 1959, to July 23, 1961, water-stage recorder at site 1,800 ft (550 m) upstream and at datum 1.22 ft (0.372 m) lower; July 24, 1961, to Mar. 14, 1964, water-stage recorder at site 1,500 ft (460 m) upstream at datum 1.22 ft (0.372 m) lower.

AVERAGE DISCHARGE.--16 years, 59.3 ft³/s (1.679 m³/s).

EXTREMES.--Current year: Maximum discharge, 2,480 ft³/s (70.2 m³/s) July 13 (gage height, 3.81 ft or 1.161 m); minimum daily, 10 ft³/s (0.28 m³/s) Nov. 28 to Dec. 1, Apr. 23, June 11.

Period of record: Maximum discharge, 6,410 ft³/s (182 m³/s) Apr. 2, 1970 (gage height, 5.17 ft or 1.576 m); no flow Aug. 22 to Sept. 17, 1963, Sept. 19, 1963 to Mar. 14, 1964, Mar. 19, 1964, result of filling Spruce Run Reservoir.

REMARKS.--Record good. Flow regulated by Spruce Run Reservoir (see Raritan River Basin, reservoirs in). Records water quality for the current year are published in Section 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	77	15	10	40	106	80	80	57	178	126	70	32
2	96	15	14	57	100	82	75	73	106	92	66	33
3	99	16	105	57	112	142	230	70	64	87	62	49
4	69	13	113	58	70	155	230	106	55	80	57	21
5	46	10	52	57	88	90	134	168	66	64	87	20
6	46	11	41	57	98	62	103	109	267	57	73	29
7	47	31	49	58	118	66	87	101	173	59	85	28
8	46	45	126	57	75	92	77	77	95	57	64	26
9	46	31	193	134	66	73	64	68	59	62	46	44
10	46	30	138	140	63	48	57	64	142	92	46	14
11	40	27	82	120	62	35	57	59	10	64	44	13
12	30	24	80	117	72	35	59	55	151	48	44	39
13	30	56	80	147	75	64	64	255	261	1480	41	64
14	30	53	81	157	65	73	57	301	138	1220	44	44
15	30	101	80	96	60	90	57	151	92	580	28	13
16	33	71	131	80	68	73	62	188	87	426	77	14
17	63	62	204	94	69	73	64	142	112	329	75	18
18	84	59	156	84	124	73	57	109	87	242	57	19
19	74	57	85	155	154	225	70	98	98	183	41	29
20	89	58	91	189	142	646	95	87	151	173	30	35
21	74	77	80	124	108	236	49	85	82	471	25	64
22	68	64	96	108	90	173	10	75	62	208	42	57
23	53	57	79	98	113	164	10	68	51	142	19	242
24	37	57	77	93	284	178	12	64	51	119	46	499
25	37	39	87	182	398	225	85	48	49	401	453	612
26	37	28	88	283	293	255	164	48	41	208	164	308
27	37	13	78	137	207	122	103	59	41	134	92	248
28	37	10	79	104	147	75	48	46	225	109	55	159
29	29	10	77	207	---	75	44	32	360	95	42	115
30	15	10	81	172	---	98	49	46	248	85	53	101
31	15	---	62	108	---	109	---	85	---	77	41	---
TOTAL	1558	1150	2795	3578	3419	3987	2353	2994	3602	7570	2169	2989
MEAN	50.3	38.3	90.2	115	122	129	78.4	96.6	120	244	70.0	99.6
MAX	99	101	204	283	398	646	230	301	360	1480	453	612
MIN	15	10	10	40	60	35	10	32	10	48	19	13

CAL YR 1974 TOTAL 24646.6 MEAN 67.5 MAX 385 MIN 9.6
WTR YR 1975 TOTAL 38164.0 MEAN 105 MAX 1480 MIN 10

RARITAN RIVER BASIN

01397000 South Branch Raritan River at Stanton, N. J.

LOCATION.--Lat 40°34'21", long 74°52'10", Hunterdon County, on right bank at downstream side of highway bridge at Stanton railroad station, 0.4 mi (0.6 km) upstream from Prescott Brook.

DRAINAGE AREA.--147 mi² (381 km²).

PERIOD OF RECORD.--July 1903 to December 1906, July 1919 to current year. Monthly discharge only for some periods, published in WSP 1302.

GAGE.--Water-stage recorder. Datum of gage is 125.01 ft (38.103 m) above mean sea level. Prior to Aug. 17, 1925, nonrecording gage on downstream side of highway bridge at same site and datum.

AVERAGE DISCHARGE.--59 years, (1904-6, 1920-75) 239 ft³/s (6.768 m³/s), unadjusted.

EXTREMES.--Current year: Maximum discharge, 5,130 ft³/s (145 m³/s) July 13 (gage height, 8.89 ft or 2.710 m); minimum daily, 111 ft³/s (3.14 m³/s) Nov. 30.

Period of record: Maximum discharge, 18,000 ft³/s (510 m³/s) Aug. 19, 1955 (gage height 15.22 ft or 4.639 m) from rating curve extended above 6,400 ft³/s (180 m³/s) on basis of computation of flow over Clinton Dam, 6.5 mi (10.5 km) upstream, at gage height, 10.72 ft (3.269 m), contracted-opening measurement 1.7 mi 2.7 km) downstream, and slope-area measurement 0.4 mi (0.6 km) downstream at gage height, 15.22 ft (4.639 m), adjusted to present site; minimum, 9 ft³/s (0.25 m³/s) Nov. 7, 1931; minimum daily, 12 ft³/s (0.34 m³/s) Oct. 18, 1963.

REMARKS.--Records good except those for periods of no gage-height record, which are fair. Flow regulated by Spruce Run Reservoir since September 1963 (see Raritan River Basin, reservoirs in). Occasional regulation at low flow by ponds above station. Slight diurnal fluctuation caused by small powerplants above station. Water diverted by Hamden Pumping Station, 4.01 mi (6.4 km) upstream, into Round Valley Reservoir since February 1966 (see Raritan River Basin, diversions). Records of water quality for the current year are published in Section 2 of this report.

REVISIONS (WATER YEARS).--WSP 561: Drainage area. WSP 1552: 1904, 1922-24(M), 1928-29(M), 1933-35(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	308	118	114	232	452	461	425	238	761	363	351	188
2	274	116	612	257	422	428	351	267	413	275	329	182
3	267	122	430	225	405	453	611	261	289	264	308	192
4	228	118	373	222	339	457	885	376	264	257	307	148
5	192	114	241	219	372	372	480	676	300	228	403	144
6	181	120	204	210	397	342	440	388	1030	213	317	155
7	175	120	284	316	418	331	412	470	744	232	378	155
8	167	140	785	296	339	363	379	351	418	222	312	142
9	164	122	959	946	312	317	341	300	323	219	266	155
10	159	120	493	676	296	282	327	281	384	296	252	122
11	151	118	372	493	285	260	315	264	235	222	243	115
12	135	127	343	466	296	297	304	254	660	198	237	178
13	135	576	373	541	327	383	293	773	1080	3350	227	298
14	132	251	312	581	312	338	281	1090	531	2830	233	191
15	132	261	296	413	285	355	275	536	384	1610	207	132
16	413	216	716	360	267	331	285	660	405	1230	291	127
17	430	192	845	364	312	335	269	521	430	921	282	128
18	274	187	512	380	526	319	255	422	347	679	244	139
19	235	184	376	699	591	972	272	392	368	542	269	167
20	232	189	356	761	536	2400	298	351	488	487	177	188
21	216	225	323	502	397	1090	242	331	316	1790	158	271
22	204	204	327	452	364	710	183	308	271	676	160	240
23	187	178	293	418	461	644	177	289	251	499	149	866
24	159	175	285	392	1260	617	242	270	244	454	184	1640
25	154	167	296	591	1430	699	459	251	248	2010	1290	2280
26	151	145	331	1090	946	639	586	248	228	929	484	1220
27	148	120	271	591	630	474	375	254	222	598	313	938
28	143	118	264	457	601	376	264	228	497	509	234	591
29	140	116	254	704	---	372	244	201	773	451	205	469
30	118	111	254	761	---	457	238	235	581	408	223	419
31	120	---	241	488	---	481	---	418	---	377	221	---
TOTAL	6124	5078	11955	15103	13578	16355	10508	11904	13485	23319	9194	12180
MEAN	198	169	386	487	485	528	350	384	450	752	297	406
MAX	430	576	959	1090	1430	2400	885	1090	1080	3350	1290	2280
MIN	118	111	114	210	267	260	177	201	222	198	149	115

CAL YR 1974 TOTAL 107940 MEAN 296 MAX 1780 MIN 72
WTR YR 1975 TOTAL 148783 MEAN 408 MAX 3350 MIN 111

NOTE.--No gage-height record Feb. 21 to Mar. 15, Mar. 31 to Apr. 30.

01398000 Neshanic River at Reaville, N. J.

LOCATION.--Lat 40°28'18", long 74°49'42", Hunterdon County, on left bank 50 ft (15 m) downstream from highway bridge, 0.6 mi (1.0 km) southwest of Reaville, 1.5 mi (2.4 km) downstream from Third Neshanic River, and 2.2 mi (3.5 km) upstream from Back Brook.

DRAINAGE AREA.--25.7 mi² (66.6 km²).

PERIOD OF RECORD.--June 1930 to current year.

GAGE.--Water-stage recorder. Concrete control since Sept. 26, 1935. Datum of gage is 109.46 ft (33.363 m) above mean sea level.

AVERAGE DISCHARGE.--45 years, 35.5 ft³/s (1.005 m³/s), 18.74 in/yr (476 mm/yr).

EXTREMES.--Current year: Maximum discharge, 4,550 ft³/s (129 m³/s) Sept. 25 (gage height, 9.98 ft or 3.042 m, from peak-stage indicator) from rating curve extended above 1,700 ft³/s (48 m³/s) on basis of measurement 0.7 mi (1.1 km) downstream at gage height 11.90 ft (3.627 m); minimum daily, 1.5 ft³/s (0.042 m³/s) Sept. 10.

Period of record: Maximum discharge, 15,900 ft³/s (450 m³/s) Aug. 28, 1971 (gage height, 13.84 ft or 4.218 m, from high-water mark in gage house) from rating curve extended above 1,700 ft³/s (48 m³/s) on basis of slope-area measurement 0.7 mi (1.1 km) downstream (adjusted to present site) at gage height 11.90 ft (3.627 m); no flow many days 1965, 1966, and part of July 17, 1968.

REMARKS.--Records good except those for period of no gage-height record, which are fair. Regulation from unknown sources during summer season.

REVISIONS (WATER YEARS).--WSP 1552: 1933, 1934(M), 1936(M), 1938, 1940(M), 1942(M), 1945-46, 1951, 1952(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	39	8.5	9.3	37	51	50	35	26	336	9.0	8.4	2.7
2	29	7.7	231	30	43	42	32	27	65	8.0	7.7	2.7
3	21	26	79	24	36	35	64	22	43	14	7.0	2.6
4	17	16	47	24	30	30	41	105	31	12	6.7	2.4
5	15	14	36	21	34	27	32	100	50	8.0	12	2.5
6	13	13	31	19	41	25	30	56	541	7.4	7.4	2.5
7	12	12	28	88	45	24	27	50	192	7.7	8.7	2.1
8	10	10	270	44	33	26	25	37	80	6.7	7.0	1.9
9	8.9	9.8	123	338	29	19	27	31	54	8.0	5.8	1.7
10	8.1	8.9	67	101	21	17	20	28	39	7.4	5.5	1.5
11	7.4	8.5	49	91	21	19	19	26	32	6.1	5.0	1.6
12	7.6	15	42	64	15	29	18	23	264	6.1	4.5	3.0
13	7.0	158	36	168	24	64	16	105	653	753	5.0	4.2
14	6.6	48	33	105	20	35	15	87	117	380	5.0	3.8
15	6.1	41	20	61	18	52	16	44	70	165	3.8	2.5
16	300	32	493	48	19	82	20	125	63	113	16	2.2
17	77	27	172	38	34	62	15	58	51	80	7.4	1.9
18	42	23	86	142	151	46	14	47	39	49	5.8	1.7
19	31	21	68	165	153	99	14	37	36	37	4.7	4.4
20	26	21	48	228	93	1160	13	30	33	45	4.0	5.2
21	20	23	42	89	67	131	11	25	23	208	3.6	13
22	17	17	35	70	53	84	10	22	20	51	4.2	10
23	16	14	30	62	156	71	9.7	19	17	35	3.6	80
24	14	14	29	56	617	70	25	16	16	28	9.0	400
25	13	14	32	190	321	98	70	14	15	27	11	880
26	13	13	26	127	109	58	105	13	14	20	5.3	470
27	11	9.8	23	70	73	47	43	12	13	17	4.2	440
28	10	11	21	56	57	43	36	9.7	15	15	3.3	110
29	9.3	10	19	185	---	40	20	8.7	18	12	2.9	56
30	8.9	8.9	19	86	---	67	26	20	12	10	3.3	38
31	8.9	---	17	62	---	43	---	23	---	9.0	3.3	---
TOTAL	824.8	655.1	2261.3	2889	2364	2695	848.7	1246.4	2952	2154.6	191.1	2550.1
MEAN	26.6	21.8	72.9	93.2	84.4	86.9	28.3	40.2	98.4	69.5	6.16	85.0
MAX	300	158	493	338	617	1160	105	125	653	753	16	880
MIN	6.1	7.7	9.3	19	15	17	9.7	8.7	12	6.1	2.9	1.5
CFSM	1.04	.85	2.84	3.63	3.28	3.38	1.10	1.56	3.83	2.70	.24	3.31
IN.	1.19	.95	3.27	4.18	3.42	3.90	1.23	1.80	4.27	3.12	.28	3.69

CAL YR 1974 TOTAL 14042.60 MEAN 38.5 MAX 493 MIN .95 CFSM 1.50 IN 20.33
WTR YR 1975 TOTAL 21631.9 MEAN 59.3 MAX 493 MIN 1.5 CFSM 2.31 IN 31.31

PEAK DISCHARGE (BASE, 1,600 CFS)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
12-16	1600	7.34	1,750	7-13	1130	7.56	1,900
3-20	0230	9.94	4,490	9-25	Unknown	9.98	4,550
6-13	0845	7.14	1,620				

NOTE.--No gage-height record Sept. 6-30.

01398500 North Branch Raritan River near Far Hills, N. J.

LOCATION.--Lat 40°42'30", long 74°38'11", Somerset County, on left bank 75 ft (23 m) upstream from Ravine Lake Dam, 1.6 mi (2.6 km) north of Far Hills, and 2.3 mi (3.7 km) upstream from Peapack Brook.

DRAINAGE AREA.--26.2 mi² (67.9 km²).

PERIOD OF RECORD.--October 1921 to September 1975 (discontinued). Monthly discharge only for some periods, published in WSP 1302.

GAGE.--Water-stage recorder above masonry dam. Datum of gage is 224.49 ft (68.425 m) above mean sea level (New Jersey Geological Survey bench mark). Prior to June 18, 1925, nonrecording gage in stilling box at left end of dam at same datum.

AVERAGE DISCHARGE.--54 years, 47.2 ft³/s (1.337 m³/s), 24.46 in/yr (621 mm/yr).

EXTREMES.--Current year: Maximum discharge, 1,450 ft³/s (41.1 m³/s) July 21 (gage height, 4.26 ft or 1.298 m); minimum, 18 ft³/s (0.51 m³/s) Oct. 9, 10.

Period of record: Maximum discharge, 6,390 ft³/s (181 m³/s) Aug. 28, 1971 (gage height, 7.28 ft or 2.219 m) from rating curve extended above 2,000 ft³/s (57 m³/s) on basis of computation of peak flow over dam; no flow at times when Ravine Lake was filling.

Stage of 7.6 ft (2.32 m), from floodmark, occurred July 23, 1919, discharge, about 7,000 ft³/s (200 m³/s).

REMARKS.--Records fair except those from Oct. 19 to Dec. 1 and May 20-30, which are poor. Records given herein include diversion of about 2.0 ft³/s (0.057 m³/s), Oct. 1-10 and 2.5 ft³/s (0.071 m³/s) May 5 to Sept. 30, to small turbine at dam fountain and returned to river 1,000 ft (300 m) downstream from Ravine Lake Dam. Flow regulated occasionally by operation of waste gate in dam. Records of water quality for the current year are published in Section 2 of this report.

REVISIONS (WATER YEARS).--WSP 781: Drainage area. WSP 1552: 1922-23, 1924-25(M), 1935(M). WSP 1902: 1954.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	45	25	21	69	79	103	72	47	172	30	60	22
2	39	25	208	67	72	95	67	52	68	32	60	22
3	34	21	78	42	69	87	100	47	54	32	56	20
4	36	20	54	42	63	80	93	113	52	32	62	20
5	27	22	54	40	69	76	75	110	62	30	62	22
6	21	25	53	39	69	75	69	74	242	28	52	20
7	19	26	49	63	69	78	66	126	124	30	72	22
8	19	20	210	66	63	74	60	78	88	28	50	22
9	18	17	107	252	57	63	60	70	62	30	42	24
10	17	17	79	186	52	62	57	68	88	34	38	20
11	17	17	68	103	52	63	57	66	62	28	34	18
12	18	20	64	88	49	86	54	64	206	24	32	28
13	17	151	64	132	54	95	52	128	248	418	32	54
14	17	60	61	102	52	73	49	112	120	206	32	30
15	17	49	58	81	52	72	49	74	180	138	30	24
16	131	44	180	75	52	75	52	108	96	154	34	22
17	79	37	126	71	63	75	47	92	86	112	32	22
18	47	38	79	120	120	66	45	82	82	104	32	22
19	39	29	66	149	127	268	49	54	74	86	30	28
20	36	31	60	134	94	328	45	68	74	82	26	40
21	31	39	57	91	77	163	42	62	62	392	26	56
22	26	29	52	89	71	139	40	56	56	168	26	42
23	25	29	47	87	97	118	40	48	56	130	24	176
24	25	31	47	83	255	121	66	48	60	116	30	380
25	27	31	54	158	218	123	101	44	66	502	220	380
26	25	28	49	145	134	93	97	40	52	148	52	196
27	26	29	45	96	115	82	54	38	50	116	44	302
28	23	22	45	98	100	78	50	42	60	100	34	134
29	22	24	44	142	---	80	47	34	72	88	30	104
30	22	21	44	105	---	114	47	28	50	78	32	88
31	24	---	44	86	---	81	---	62	---	72	28	---
TOTAL	962	952	2267	2973	2452	3184	1862	2131	2720	3576	1414	2360
MEAN	31.0	31.7	73.1	95.9	87.6	103	62.1	68.7	90.7	115	45.6	78.7
MAX	131	151	210	252	255	328	100	128	248	502	220	380
MIN	17	17	21	39	49	62	40	28	50	24	24	18
CFSM	1.18	1.21	2.79	3.66	3.34	3.93	2.37	2.62	3.46	4.39	1.74	3.00
IN.	1.37	1.35	3.22	4.22	3.48	4.52	2.64	3.03	3.86	5.08	2.01	3.35

CAL YR 1974 TOTAL 17630.1 MEAN 48.3 MAX 302 MIN 8.8 CFSM 1.84 IN 25.03
WTR YR 1975 TOTAL 26853.0 MEAN 73.6 MAX 502 MIN 17 CFSM 2.81 IN 38.13

PEAK DISCHARGE (BASE, 700 CFS)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
3-19	2115	4.05	1,230	7-25	0500	4.13	1,310
7-13	1130	4.16	1,340	9-24	2200	3.92	1,100
7-21	0200	4.26	1,450				

01399500 Lamington (Black) River near Pottersville, N. J.

LOCATION.--Lat 40°43'39", long 74°43'50", Morris County, on right bank 1.1 mi (1.8 km) upstream from bridge on State Highway 512, 1.2 mi (1.9 km) northwest of Pottersville, and 5.5 mi (8.8 km) upstream from Cold Brook.

DRAINAGE AREA.--32.8 mi² (85.0 km²).

PERIOD OF RECORD.--October 1921 to current year. Monthly discharge only for October and November 1921, published in WSP 1302. Prior to October 1952, published as "Black River near Pottersville".

GAGE.--Water-stage recorder. Concrete control since July 1, 1937. Datum of gage is 284.14 ft (86.606 m) above mean sea level (New Jersey Geological Survey bench mark). Prior to July 1, 1922, nonrecording gage on downstream side of highway bridge at Pottersville, 1.1 mi (1.8 km) downstream at different datum.

AVERAGE DISCHARGE.--54 years, 55.4 ft³/s (1.69 m³/s), 22.94 in/yr (583 mm/yr).

EXTREMES.--Current year: Maximum discharge, 1,130 ft³/s (32.0 m³/s) July 13 (gage height, 4.12 ft or 1.256 m) from rating curve extended above 380 ft³/s (10.8 m³/s) on basis of slope-area measurement at gage height 4.71 ft (1.436 m); minimum, 23 ft³/s (0.65 m³/s) Oct. 15 (gage height, 1.68 ft or 0.512 m).

Period of record: Maximum discharge, 2,700 ft³/s (76.5 m³/s) Aug. 28, 1971 (gage height, 5.39 ft or 1.643 m) from rating curve extended above 380 ft³/s (10.8 m³/s) on basis of slope-area measurement at gage height 4.71 ft (1.436 m); minimum, 1.3 ft³/s (0.037 m³/s) Oct. 4, 1930.

REMARKS.--Records excellent. Flow regulated occasionally by pond above station.

REVISIONS (WATER YEARS).--WSP 741: 1932. WSP 761: Drainage area. WSP 1552: 1922, 1924-29(M), 1931(M), 1933-34(M), 1938(P), 1939(M), 1940, 1941(M), 1942-46(P), 1947(M), 1948-49(P), 1951-52(P), 1953(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	95	28	26	54	98	108	94	57	108	50	91	51
2	80	27	125	53	88	94	88	59	86	48	81	46
3	66	28	76	50	80	84	145	57	78	46	72	43
4	53	28	70	48	72	76	120	115	70	41	70	41
5	44	29	80	47	68	72	123	130	74	36	72	36
6	37	29	66	44	72	72	115	110	160	34	76	36
7	33	28	96	64	76	70	98	120	128	33	84	33
8	30	28	148	59	72	72	88	108	113	28	74	31
9	28	27	123	153	[illegible]	66	80	96	103	35	68	30
10	27	26	103	120	62	62	76	84	84	37	64	29
11	25	25	103	130	57	60	72	72	68	32	68	29
12	24	36	90	120	54	76	68	64	133	30	54	40
13	24	98	76	120	56	84	64	105	150	369	50	45
14	24	50	66	113	57	80	62	105	118	297	45	38
15	24	53	59	98	57	82	60	86	113	258	42	41
16	78	57	94	88	60	78	64	118	100	266	50	44
17	66	51	98	76	74	78	60	103	88	218	46	41
18	48	44	86	96	103	74	59	92	72	179	43	37
19	56	38	98	115	118	205	60	86	68	146	42	41
20	57	37	82	118	110	260	57	74	68	143	40	37
21	51	38	72	105	103	226	56	66	45	248	38	66
22	43	34	62	92	94	199	51	59	54	141	36	56
23	38	32	56	90	100	163	50	53	50	120	34	143
24	34	32	54	86	175	145	66	48	46	117	41	233
25	31	32	57	130	199	140	96	47	43	410	130	283
26	30	30	57	140	168	120	113	48	42	220	92	244
27	29	30	57	123	148	108	92	47	41	204	110	230
28	28	28	57	118	125	96	84	43	46	183	102	190
29	28	27	54	135	---	92	70	40	62	152	86	158
30	24	26	51	118	---	108	60	54	50	124	74	133
31	28	---	50	108	---	96	---	72	---	104	60	---
TOTAL	1287	1076	2344	3019	2612	3356	2399	2426	2461	4357	2025	2505
MEAN	41.5	35.9	75.6	97.4	93.3	108	80.0	78.3	82.0	141	65.3	83.5
MAX	95	98	148	153	199	260	145	130	160	410	130	283
MIN	24	25	26	44	54	60	50	40	41	28	34	29
CFSM	1.27	1.09	2.30	2.97	2.84	3.29	2.44	2.39	2.50	4.30	1.99	2.55
IN.	1.46	1.22	2.66	3.42	2.96	3.80	2.72	2.75	2.79	4.94	2.30	2.84

CAL YR 1974 TOTAL 24456 MEAN 67.0 MAX 184 MIN 13 CFSM 2.04 IN 27.74
WTR YR 1975 TOTAL 29865 MEAN 81.8 MAX 410 MIN 24 CFSM 2.49 IN 33.87

PEAK DISCHARGE (BASE, 380 CFS)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
3-19	1900	3.89	932	7-25	0200	3.87	916
7-13	0630	4.12	1,130	9-24	2045	3.18	450
7-20	2345	3.88	924				

RARITAN RIVER BASIN

01399510 Upper Cold Brook near Pottersville, N. J.

LOCATION.--Lat 40°43'16", long 74°45'09", Hunterdon County, on right bank along a private dirt road, 400 ft (122 m) downstream from the Pottersville Reservoir, 1.5 mi (2.4 km) west of Pottersville.

DRAINAGE AREA.--2.18 mi² (5.65 km²).

PERIOD OF RECORD.--October 1972 to Current year.

GAGE.--Water-stage recorder above a rock outcrop control. Altitude of gage is 470 ft (143 m), from topographic map.

EXTREMES.--Current year: Maximum discharge, 197 ft³/s (5.58 m³/s) July 20 (gage height, 2.85 ft or 0.869 m); minimum daily, 0.84 ft³/s (0.024 m³/s) Nov. 11.
Period of record: Maximum discharge, 197 ft³/s (5.58 m³/s) July 20, 1975 (gage height, 2.85 ft or 0.869 m); minimum daily, 0.20 ft³/s (0.006 m³/s) Aug. 16, 1974.

REMARKS.--Record fair. Flow regulated by Pottersville Reservoir 400 ft (122 m) above station.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.8	1.0	1.3	3.3	4.8	5.6	4.8	3.5	11	2.9	4.3	2.0
2	1.6	.93	14	2.8	4.7	5.0	4.3	4.0	6.5	2.6	4.0	2.0
3	1.6	1.3	3.8	2.6	4.3	4.7	12	3.2	3.7	2.8	3.5	1.8
4	1.5	1.0	2.9	2.5	4.0	4.1	6.6	13	3.2	2.5	4.1	1.9
5	1.5	1.3	2.5	2.3	4.7	4.1	5.4	8.7	7.5	2.4	4.7	1.8
6	1.4	1.1	2.4	2.2	5.0	4.1	5.0	5.8	18	2.6	6.2	2.1
7	1.4	1.0	2.4	5.2	4.7	4.3	4.7	7.3	7.1	2.6	5.8	1.9
8	1.4	.93	18	3.0	3.8	4.1	4.3	5.0	5.2	2.5	3.7	1.8
9	1.3	.93	6.2	16	3.7	3.3	4.0	4.5	4.5	2.8	3.0	1.7
10	1.3	.93	4.5	5.8	3.3	3.5	4.8	4.1	3.8	2.5	2.8	1.6
11	1.3	.84	4.0	6.0	3.3	3.8	4.0	3.8	3.5	2.3	2.6	1.7
12	1.3	6.0	3.7	4.7	3.2	6.6	3.8	3.7	19	2.2	2.4	3.6
13	1.3	4.0	3.3	8.0	3.5	4.8	3.7	10	13	38	2.3	2.2
14	1.4	2.1	3.2	5.6	3.2	4.1	3.5	7.3	7.3	22	2.1	1.7
15	1.4	2.0	3.0	4.3	3.2	4.7	3.7	4.0	6.2	11	2.0	1.7
16	9.8	1.5	11	4.1	3.7	4.7	4.0	9.2	9.8	9.6	4.3	1.7
17	2.9	1.4	5.4	3.8	5.6	4.5	3.3	5.8	7.3	9.0	2.8	1.7
18	2.0	1.4	4.0	7.7	8.5	3.7	3.5	5.6	5.0	6.8	2.4	1.7
19	1.7	1.3	3.5	8.2	8.0	28	3.8	4.8	8.0	5.6	2.0	3.1
20	1.6	1.7	3.3	7.3	5.4	18	3.3	4.3	7.1	16	2.0	2.2
21	1.4	1.6	3.2	5.2	4.5	18	3.8	4.8	4.7	18	1.9	3.0
22	1.4	1.3	3.0	5.8	4.1	9.0	2.9	4.1	4.0	8.0	1.9	2.0
23	1.3	1.2	2.8	4.8	6.8	7.7	2.9	3.7	3.7	8.5	1.7	14
24	1.3	1.2	2.8	4.0	19	9.0	5.6	3.2	3.7	5.8	3.2	25
25	1.2	1.2	3.7	12	11	7.7	7.5	3.3	3.5	32	15	18
26	1.2	1.1	3.0	7.3	7.5	6.2	6.0	3.2	3.3	9.0	6.0	11
27	1.0	1.1	2.8	5.6	6.4	5.8	4.0	3.0	3.2	8.0	2.8	8.7
28	.93	1.1	2.6	5.2	5.8	5.4	3.7	2.9	4.3	6.0	2.0	6.0
29	.93	1.0	2.5	9.2	---	5.6	3.3	2.6	4.0	6.0	2.0	5.0
30	1.0	1.0	2.4	5.8	---	8.5	3.1	7.1	3.7	5.2	2.5	4.7
31	1.0	---	2.4	5.4	---	5.6	---	6.0	---	4.7	2.0	---
TOTAL	52	44	133	175	155	205	134	162	193	258	108	137
MEAN	1.68	1.48	4.31	5.65	5.55	6.64	4.48	5.23	6.45	8.35	3.48	4.58
MAX	9.8	6.0	18	16	19	28	12	13	19	38	15	25
MIN	.93	.84	1.3	2.2	3.2	3.3	2.9	2.6	3.2	2.2	1.7	1.6

CAL YR 1974 TOTAL 1174.46 MEAN 3.22 MAX 18 MIN .20
WTR YR 1975 TOTAL 1761.12 MEAN 4.83 MAX 38 MIN .84

01400000 North Branch Raritan River near Raritan, N. J.

LOCATION.--Lat 40°34'10", long 74°40'45", Somerset County, on right bank 400 ft (120 m) upstream from U.S. Highway 202, 1.4 mi (2.3 km) upstream from confluence with South Branch, and 2.7 mi (4.3 km) west of Raritan.

DRAINAGE AREA.--190 mi² (492 km²).

PERIOD OF RECORD.--June 1923 to current year. Monthly discharge only for June 1923, published in WSP 1302. Prior to October 1943, published as "at Milltown".

GAGE.--Water-stage recorder. Concrete control since Sept. 1, 1936. Datum of gage is 50.43 ft (15.371 m) above mean sea level. Prior to Oct. 17, 1936, nonrecording gage at site 30 ft (9.1 m) downstream at same datum.

AVERAGE DISCHARGE.--52 years, 299 ft³/s (8.468 m³/s), 21.37 in/yr (543 mm/yr).

EXTREMES.--Current year: Maximum discharge, 9,330 ft³/s (264 m³/s) July 21 (gage height, 10.44 ft or 3.182 m); minimum, 75 ft³/s (2.12 m³/s) Nov. 27 (gage height, 2.74 ft or 0.835 m).
Period of record: Maximum discharge, 24,900 ft³/s (705 m³/s) Aug. 28, 1971 (gage height 15.47 ft or 4.715 m, from high-water mark in gage house) from rating curve extended above 15,000 ft³/s (420 m³/s); minimum observed, about 3 ft³/s (0.08 m³/s) Nov. 28, 1930 (gage height, 1.72 ft or 0.524 m), result of freezeup; minimum daily, 7.5 ft³/s (0.21 m³/s) Sept. 26, 27, 1964.

REMARKS.--Records excellent. Records of water quality for the current year are published in Section 2 of this report.

REVISIONS (WATER YEARS).--WSP 1552: 1924-26, 1928-35.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	295	114	167	297	454	475	460	252	1760	226	358	186
2	263	116	1970	310	408	410	610	285	695	203	327	175
3	249	116	581	230	366	384	550	263	350	193	299	165
4	224	117	348	228	327	346	750	866	307	196	295	147
5	184	116	290	221	341	331	500	1160	387	168	386	141
6	147	127	264	198	385	324	650	527	1970	168	290	147
7	132	113	238	583	632	318	620	618	822	196	624	140
8	119	109	1570	362	349	329	375	449	511	160	299	128
9	113	103	838	1850	308	275	340	387	422	150	261	123
10	107	99	474	691	267	268	320	356	353	215	237	113
11	182	98	396	628	313	273	315	313	305	155	228	111
12	97	120	352	528	258	404	388	290	1570	139	212	198
13	96	915	312	967	396	569	285	986	2830	3830	195	312
14	93	287	288	721	251	372	270	1130	786	2600	187	151
15	93	235	261	468	255	460	260	497	583	1380	169	131
16	973	298	1550	418	261	480	285	861	579	1850	279	133
17	602	187	1010	372	350	432	250	528	656	942	225	134
18	276	170	514	699	670	356	235	626	451	712	193	125
19	228	156	626	972	740	1290	245	374	659	540	169	160
20	206	158	374	1060	630	3740	234	325	614	488	155	179
21	186	200	337	560	475	1050	712	314	339	4560	141	366
22	165	163	308	486	400	811	288	282	296	824	142	274
23	153	136	275	451	700	698	196	263	274	606	136	1830
24	164	132	267	421	2000	660	331	243	258	510	171	3490
25	135	133	293	1070	2500	[illegible]	745	228	282	2740	1620	5110
26	133	129	241	1020	1000	561	716	224	238	1090	825	1700
27	126	112	265	568	600	456	367	215	231	741	351	2240
28	118	116	261	458	520	425	316	193	248	634	282	875
29	116	114	227	1170	---	415	283	176	461	534	261	638
30	113	107	225	710	---	618	268	235	314	451	246	528
31	115	---	268	516	---	560	---	513	---	397	219	---
TOTAL	6091	5004	15078	19225	15956	18819	10870	13777	19129	27598	9560	20150
MEAN	196	167	486	620	570	607	363	444	638	890	308	672
MAX	973	915	1970	1850	2500	3740	750	1160	2830	4560	1620	5110
MIN	93	98	167	198	251	268	196	176	231	139	136	111
CFSM	1.03	.88	2.56	3.26	3.00	3.19	1.91	2.34	3.36	4.68	1.62	3.54
IN.	1.19	.98	2.95	3.76	3.12	3.68	2.13	2.70	3.75	5.40	1.87	3.95

CAL YR 1974 TOTAL 121309 MEAN 332 MAX 2170 MIN 52 CFSM 1.75 IN 23.75
WTR YR 1975 TOTAL 181265 MEAN 497 MAX 5110 MIN 93 CFSM 2.62 IN 35.49

PEAK DISCHARGE (BASE, 5,000 CFS)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
3-20	0315	9.72	7,750	7-21	0700	10.44	9,330
7-13	1730	9.71	7,860	9-25	0300	9.62	7,570

01400500 Raritan River at Manville, N. J.

LOCATION.--Lat 40°33'18", long 74°35'02", Somerset County, on left bank at downstream side of highway bridge at Manville, 1.4 mi (2.2 km) upstream from Millstone River.

DRAINAGE AREA.--490 mi² (1,269 km²).

PERIOD OF RECORD.--June 1903 to March 1907 (published as "at Finderne"), August 1908 to April 1915 (gage heights only, published in WSP 521), August 1921 to current year. Monthly discharge only for some periods, published in WSP 1302.

GAGE.--Water-stage recorder. Datum of gage is 20.61 ft (6.282 m) above mean sea level. Prior to Aug. 15, 1923, nonrecording gage on downstream side of highway bridge at same site and datum. From Oct. 1, 1952 to Sept. 30, 1966, water-stage recorder at station at Bound Brook, above Calco Dam (sta. 01403000) used as auxiliary gage when stage is above 5.0 ft (1.52 m). Since Oct. 1, 1966, water-stage recorder at station at Bound Brook, used as auxiliary gage, was moved downstream to present site (sta. 01403060).

AVERAGE DISCHARGE.--57 years (1903-6, 1921-75), 742 ft³/s (21.01 m³/s), unadjusted.

EXTREMES.--Current year: Maximum discharge, 17,200 ft³/s (487 m³/s) Mar. 20 (gage height, 16.12 ft or 4.913 m); minimum, 200 ft³/s (5.66 m³/s) Sept. 11 (gage height, 3.98 ft or 1.213 m); minimum daily, 205 ft³/s (5.81 m³/s) Sept. 11.

Period of record: Maximum discharge, 36,300 ft³/s (1,030 m³/s) revised, Aug. 28, 1971, from rating curve extended above 14,000 ft³/s (396 m³/s) on basis of slope-area measurement of gage heights 14.9 and 20.42 ft (4.54 and 6.224 m), gage height, 23.8 ft (7.25 m), from floodmark (backwater from Millstone River); minimum daily discharge, 17 ft³/s (0.48 m³/s) Sept. 19, 1964 (does not include water diverted to Johns-Manville plant).

REVISIONS.--The figures of maximum discharge for some water years have been revised, as shown in the following table. They supersed figures published in the reports indicated.

PUBLICATION	WATER YEAR	DATE	DISCHARGE ft³/s	DISCHARGE m³/s	GAGE HEIGHT ft	GAGE HEIGHT m
WSP 1902	1964	Jan. 10, 1964	13,600	385	14.52	4.426
WRD-NJ 1969	1969	July 29, 1969	13,100	371	14.23	4.337
WRD-NJ 1970	1970	Apr. 3, 1970	23,700	671	18.22	5.553
WRD-NJ 1971	1971	Aug. 28, 1971	36,300	1,030	23.8	7.25
WRD-NJ 1972	1972	June 23, 1972	21,800	617	17.89	5.453
WRD-NJ 1973	1973	Aug. 2, 1973	19,600	555	17.47	5.325

REMARKS.--Records good except those above 5,000 ft³/s (140 m³/s), which are fair. Records given herein represent flow at gage only. Slight diurnal fluctuation at low flow. Flow regulated by Spruce Run Reservoir (see Raritan River Basin, reservoirs in). Diversion to Round Valley Reservoir (see Raritan River Basin, diversions). Water diverted 1,500 ft (457 m) upstream from station and returned to river 0.6 mi (1.0 km) downstream from station by Johns-Manville Corporation (see Raritan River Basin, diversions). Records of water quality for the current year for Raritan River near Manville (sta 01400510) are published in Section 2 of this report.

REVISED PEAK DISCHARGE.--1970: Dec. 11, 1969 (1315) 12,200 ft³/s (13.51 ft); Apr. 3, 1970 (0115) 23,700 ft³/s (18.22 ft).

1971: Feb. 14, 1971 (0315) 13,600 ft³/s (14.13 ft); Aug. 28, 1971 (about 1700) 36,300 ft³/s (23.8 ft); Sept. 12, 1971 (2230) 14,500 ft³/s (15.06 ft).

1972: June 23, 1972 (0530) 21,800 ft³/s (17.89 ft); July 13, 1972 (2330) 13,700 ft³/s (14.10 ft).

1973: Nov. 9, 1972 (0730) 17,300 ft³/s (16.79 ft); Nov. 15, 1972 (0045) 12,600 ft³/s (13.84 ft); Feb. 3, 1973 (0515) 17,000 ft³/s (16.84 ft); June 30, 1973 (1345) 19,500 ft³/s (17.00 ft); Aug. 2, 1973 (2145) 19,600 ft³/s (17.47 ft).

REVISIONS (WATER YEARS).--WSP 1552: 1904, 1906, 1922, 1923(M), 1924-25, 1926-29(M), 1930, 1932-33(M), 1924-54.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1060	270	250	620	1290	1330	972	956	3270	750	790	380
2	780	270	4030	770	1140	1140	900	436	1670	580	723	352
3	696	310	2090	572	996	1010	1390	436	950	564	669	340
4	588	322	1150	556	870	950	2020	1290	760	612	636	310
5	486	285	850	540	960	870	1190	3320	810	479	930	270
6	430	290	670	486	961	741	1070	1450	4600	472	687	290
7	394	270	684	1250	1120	732	910	1460	3410	500	880	300
8	350	280	3410	1010	950	750	829	1160	1570	508	696	285
9	334	270	3630	4240	790	669	741	920	1120	437	588	245
10	316	255	1640	2650	644	596	696	840	930	596	524	265
11	300	245	1210	1770	644	572	652	760	760	479	493	205
12	285	270	1070	1550	486	678	620	696	2510	394	479	270
13	275	2140	890	2250	790	1330	588	2020	6780	4950	451	723
14	265	1060	800	2380	790	910	564	4190	2610	13000	450	394
15	260	741	741	1410	687	1010	540	1710	1580	7750	430	285
16	2030	660	3840	1120	612	1340	596	2270	1450	5360	604	245
17	2330	540	5390	983	723	1140	540	1720	1900	3810	569	240
18	1030	486	1950	1310	2030	961	500	1720	1210	2030	493	240
19	741	444	1310	2870	2350	1700	588	1060	1170	1490	424	320
20	636	437	1090	3530	1950	12000	532	880	1690	1350	364	376
21	572	516	950	1790	1370	4890	479	810	972	10400	316	560
22	493	479	860	1460	1130	2190	394	723	760	5320	310	644
23	458	382	770	1290	1770	1900	364	644	669	1870	322	3250
24	406	364	714	1180	5410	1660	564	596	678	1270	364	6400
25	370	364	723	2150	6960	2090	1530	540	750	4530	3610	14900
26	364	320	880	3370	2830	1630	1830	500	588	3250	1690	8280
27	340	280	636	1790	1950	1290	1050	486	540	1670	780	8840
28	322	280	604	1370	1610	1060	741	451	604	1370	572	3710
29	305	270	572	2030	---	1020	644	380	1610	1170	450	1750
30	285	250	556	2360	---	1370	580	430	1270	983	458	1350
31	275	---	532	1520	---	1310	---	1060	---	870	665	---
TOTAL	17784	13366	43690	52985	43711	50039	24463	35612	49199	78814	21333	55975
MEAN	574	446	1403	1709	1561	1614	815	1142	1640	2542	688	1866
MAX	2330	2140	5390	4240	6960	12000	2020	4190	6780	13000	3610	14900
MIN	260	245	250	486	486	572	364	380	540	394	310	205

CAL YR 1974 TOTAL 298189 MEAN 817 MAX 5390 MIN 151
WTR YR 1975 TOTAL 486571 MEAN 1333 MAX 14900 MIN 205

PEAK DISCHARGE (BASE, 10,000 CFS).--Mar. 20 (0830) 17,200 ft³/s (16.12 ft); July 14 (2245) 15,700 ft³/s (15.37 ft); July 21 (14[illegible]) 15,500 ft³/s (15.24 ft); Sept. 25 (0915) 16,200 ft³/s (15.59 ft).

01400730 Millstone River at Plainsboro, N. J.

LOCATION.--Lat 40°19'27", long 74°36'51", Mercer County, on left bank 30 ft (9 m) upstream from bridge on Penn Central Railroad, 100 ft (30 m) downstream from Cranbury Brook, 0.2 mi (0.3 km) upstream from Big Bear Brook, and 0.9 mi (1.4 km) southwest of Plainsboro.

DRAINAGE AREA.--65.8 mi² (170.4 km²).

PERIOD OF RECORD.--May 1964 to September 1975 (discontinued).

GAGE.--Water-stage recorder. Datum of gage is 53.41 ft (16.279 m) above mean sea level.

AVERAGE DISCHARGE.--11 years, 99.2 ft³/s (2.809 m³/s), 20.47 in/yr (520 mm/yr).

EXTREMES.--Current year: Maximum discharge, 3,970 ft³/s (112 m³/s) July 21 (gage height, 8.96 ft or 2.731 m); minimum daily 29 ft³/s (0.82 m³/s) Oct. 11, 12.

Period of record: Maximum discharge, 3,970 ft³/s (112 m³/s) July 21, 1975 (gage height, 8.96 ft or 2.731 m); minimum daily, 1.9 ft³/s (0.054 m³/s) Aug. 10-13, 1966.

REMARKS.--Records fair. Occasional diversion for irrigation above station. Records of water quality for the current year are published in Section 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	80	42	38	85	120	98	119	71	121	55	68	57
2	70	43	136	100	100	82	99	71	192	46	68	55
3	62	47	345	96	85	66	116	72	136	38	65	54
4	54	70	300	90	80	82	248	85	77	43	61	52
5	46	61	180	80	90	75	234	218	64	42	66	51
6	36	56	110	70	110	74	195	248	136	43	69	51
7	31	50	90	180	140	72	110	174	230	48	69	52
8	31	50	210	150	130	72	96	118	228	52	66	51
9	31	48	550	200	100	72	87	90	142	51	65	51
10	30	45	275	230	90	69	81	75	80	47	62	48
11	30	44	150	180	74	66	79	72	51	48	59	47
12	29	44	120	155	69	75	75	73	82	47	58	51
13	29	70	98	260	68	121	72	104	208	103	57	82
14	30	85	80	440	66	150	69	258	392	835	59	64
15	31	64	105	200	62	178	69	282	246	684	58	56
16	58	55	350	170	64	199	80	203	138	889	74	57
17	290	48	900	115	115	161	82	212	102	682	112	58
18	140	43	580	180	190	116	82	184	131	282	110	58
19	100	39	370	200	260	108	80	116	125	193	92	59
20	88	41	250	480	159	220	74	85	220	171	78	64
21	74	50	140	300	108	252	64	72	254	3480	79	62
22	62	47	125	225	72	182	60	69	157	1790	80	60
23	59	42	100	180	101	135	58	63	80	524	110	105
24	51	37	91	140	228	117	65	60	61	240	190	350
25	50	35	85	250	383	140	123	54	52	205	155	1230
26	49	33	86	400	250	159	248	50	47	211	165	980
27	46	31	88	210	159	135	260	50	45	224	130	700
28	45	30	82	145	108	99	172	47	48	180	98	360
29	43	30	77	260	---	89	106	43	50	119	70	180
30	42	32	74	200	---	96	80	44	48	65	64	140
31	42	---	70	150	---	114	---	54	---	59	59	---
TOTAL	1859	1412	6265	6361	3581	3676	3363	3417	4023	11494	2616	5285
MEAN	60.0	47.1	202	205	128	119	111	110	134	371	84.4	176
MAX	290	85	900	480	383	252	260	282	392	3480	190	1230
MIN	29	30	38	70	62	66	58	43	45	38	57	47
CFSM	.91	.72	3.07	3.12	1.95	1.81	1.69	1.67	2.04	5.64	1.28	2.67
IN.	1.05	.80	3.54	3.60	2.02	2.08	1.89	1.93	2.27	6.50	1.48	2.99

CAL YR 1974 TOTAL 37628 MEAN 103 MAX 900 MIN 13 CFSM 1.57 IN 21.27
WTR YR 1975 TOTAL 53330 MEAN 146 MAX 3480 MIN 29 CFSM 2.22 IN 30.15

NOTE.--Doubtful or no gage-height record Oct. 1 to Feb. 18.

RARITAN RIVER BASIN

01401000 Stony Brook at Princeton, N. J.

LOCATION.--Lat 40°19'59", long 74°40'56", Mercer County, on right bank 12 ft (3.7 m) downstream from bridge on U.S. Highway 206, 1.6 mi (2.6 km) southwest of Princeton, and 4.0 mi (6.4 km) upstream from Lake Carnegie.

DRAINAGE AREA.--44.5 mi² (115.3 km²).

PERIOD OF RECORD.--October 1953 to current year.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 62.23 ft (18.968 m) above mean sea level (New Jersey Geological Survey bench mark).

AVERAGE DISCHARGE.--22 years, 63.4 ft³/s (1.795 m³/s), 19.35 in/yr (491 mm/yr).

EXTREMES.--Current year: Maximum discharge, 4,980 ft³/s (141 m³/s) July 14 (gage height, 10.98 ft or 3.347 m); minimum, 2.5 ft³/s (0.071 m³/s) Sept. 10, 11 (gage height, 1.41 ft or 0.430 m).

Period of record: Maximum discharge, 8,960 ft³/s (254 m³/s) Aug. 28, 1971 (gage height, 14.26 ft or 4.346 m) from rating curve extended above 4,000 ft³/s (110 m³/s) on basis of contracted-opening measurement of peak flow; no flow many days in August and September 1966.

REMARKS.--Records good. Since July 1959 some regulation by several small reservoirs, combined capacity, 49,800,000 gal (188,500 m³). Records of water quality for the current year are published in Section 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	25	14	15	79	79	78	63	49	454	21	21	4.8
2	18	14	594	89	70	67	55	57	125	16	17	4.6
3	15	21	163	52	60	57	190	51	62	15	15	4.2
4	13	30	87	48	51	48	125	288	43	28	13	3.6
5	12	22	63	45	60	42	76	324	52	17	15	3.4
6	11	19	54	38	74	43	63	120	498	14	14	4.4
7	11	16	48	218	100	42	55	150	172	21	13	3.8
8	9.8	14	570	102	83	43	49	89	83	14	12	3.6
9	9.5	13	245	962	60	31	45	67	59	17	10	3.1
10	8.4	12	111	178	46	30	39	67	45	54	8.6	2.7
11	8.1	11	83	143	43	33	38	67	35	22	7.6	2.7
12	7.7	15	70	114	38	60	34	51	342	17	7.3	5.1
13	8.1	222	62	288	51	104	31	315	645	63	6.6	6.6
14	7.1	70	95	229	42	87	27	389	151	3340	6.6	5.7
15	6.8	49	51	107	35	139	27	118	84	879	6.4	4.4
16	286	39	958	83	38	132	43	245	63	245	22	3.8
17	214	31	391	70	63	100	35	125	57	114	27	3.6
18	69	28	153	249	274	74	28	85	52	79	13	3.1
19	45	25	100	342	257	594	28	70	49	57	8.6	6.6
20	38	27	85	494	178	874	25	57	82	150	13	8.3
21	30	41	72	163	111	178	21	46	40	738	11	22
22	25	33	65	118	89	125	17	39	29	143	9.0	15
23	24	23	54	104	253	146	17	34	24	81	9.0	181
24	23	21	52	98	670	136	43	28	22	57	8.6	930
25	22	21	95	203	436	201	270	22	20	194	23	1570
26	20	22	57	261	157	104	378	21	19	104	14	918
27	19	17	45	114	104	76	102	20	18	60	9.0	794
28	18	17	42	89	87	67	72	17	24	46	6.6	153
29	17	16	38	237	---	63	68	13	82	36	5.5	89
30	17	15	36	153	---	116	51	20	33	28	5.3	67
31	16	---	34	94	---	91	---	60	---	23	5.3	---
TOTAL	1053.5	918	4508	5244	3601	3981	2107	3084	3464	6693	363.0	4727.1
MEAN	34.0	30.6	145	169	129	128	70.2	99.5	115	216	11.7	158
MAX	286	222	958	962	670	874	378	369	645	3340	27	1570
MIN	6.8	11	15	38	30	30	17	13	18	14	5.3	2.7
CFSM	.76	.69	3.26	3.80	2.90	2.88	1.58	2.24	2.58	4.85	.26	3.55
IN.	.88	.77	3.77	4.38	3.01	3.33	1.76	2.58	2.90	5.60	.30	3.95

CAL YR 1974 TOTAL 25413.2 MEAN 69.6 MAX 958 MIN 1.4 CFSM 1.56 IN 21.24
WTR YR 1975 TOTAL 39743.6 MEAN 109 MAX 3340 MIN 2.7 CFSM 2.45 IN 33.22

PEAK DISCHARGE (BASE, 1,800 CFS)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
12-16	2145	8.15	2,690	7-14	about1000	10.98	4,980
3-20	0045	9.22	3,380	9-25	1415	7.22	2,130

01402000 Millstone River at Blackwells Mills, N. J.

LOCATION.--Lat 40°28'30", long 74°34'34", Somerset County, on left bank 30 ft (9 m) downstream from highway bridge at Blackwells Mills and 0.3 mi (0.5 km) downstream from Six Mile Run.

DRAINAGE AREA.--258 mi² (668 km²).

PERIOD OF RECORD.--June 1903 to December 1904 (gage heights only), August 1921 to current year. Monthly discharge only for some periods, published in WSP 1302. Published as "at Millstone" 1903-4.

GAGE.--Water-stage recorder. Concrete control since Nov. 18, 1933. Datum of gage is 26.97 ft (8.220 m) above mean sea level. June 27, 1903, to Dec. 31, 1904, nonrecording gage at bridge 2.0 mi (3.2 km) downstream at Millstone at different datum. Aug. 4, 1921, to Aug. 16, 1928, nonrecording gage at present site and datum.

AVERAGE DISCHARGE.--54 years (1921-75), 373 ft³/s (10.56 m³/s), 19.63 in/yr (499 mm/yr).

EXTREMES.--Current year: Maximum discharge, 17,100 ft³/s (484 m³/s) July 15 (gage height, 16.84 ft or 5.133 m, from high-water mark); minimum, 68 ft³/s (1.93 m³/s) Oct. 15.

Period of record: Maximum discharge, 22,200 ft³/s (629 m³/s) Aug. 28, 1971 (gage height, 18.68 ft or 5.694 m, from high-water mark); minimum, about 5 ft³/s (0.14 m³/s) Sept. 16, 1923.

REMARKS.--Records good except those above 2,000 ft³/s (28.3 m³/s), which are poor. Inflow from and losses to Delaware and Raritan Canal above station. Flow slightly regulated by Lake Carnegie, capacity, 310,000,000 gal (1,173,000 m³) and by several smaller reservoirs, combined capacity, 49,800,000 gal (188,500 m³). Records of water quality for the current year for Millstone River near Manville (sta. 01402900), are published in Section 2 of this report.

REVISIONS (WATER YEARS).--WSP 1552: 1924-25(M), 1926.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	199	127	111	337	494	486	407	289	1320	204	216	117
2	164	126	1750	412	422	417	353	315	1060	167	211	111
3	137	151	1720	332	367	365	695	299	476	157	192	107
4	116	151	807	307	324	321	867	631	318	192	175	102
5	101	137	536	276	337	296	623	2080	283	156	198	97
6	93	131	381	245	418	270	474	1050	1780	154	181	106
7	87	122	305	728	541	228	363	877	2020	161	172	106
8	81	110	1210	603	518	225	314	599	797	148	167	101
9	81	107	2230	1620	424	234	284	444	525	165	153	99
10	78	101	965	1550	330	231	265	367	363	249	139	95
11	76	98	612	836	297	232	252	367	285	180	131	94
12	74	121	462	667	273	291	239	311	744	148	126	106
13	76	567	367	986	279	523	225	808	2360	1200	121	136
14	74	369	318	1530	267	454	216	2540	2090	7660	122	150
15	74	264	285	843	246	652	212	1490	849	14300	118	130
16	803	226	1280	585	251	741	260	1140	590	3800	211	114
17	1380	193	3660	452	325	573	252	941	491	1200	242	122
18	550	170	2550	655	959	438	235	621	421	868	200	101
19	413	156	1000	1770	1220	626	220	488	420	600	167	116
20	321	154	580	2210	1010	3210	205	373	900	596	153	127
21	198	191	468	1420	644	2300	184	311	572	9500	152	152
22	162	185	397	795	586	797	179	276	409	6400	144	168
23	142	172	346	644	823	754	166	250	286	3060	140	518
24	130	139	329	571	2200	663	210	226	231	911	196	2460
25	121	132	316	901	3000	870	750	197	215	1030	500	8400
26	116	128	324	1460	2030	629	1470	188	190	859	326	8400
27	110	123	287	838	791	496	843	179	183	615	264	8100
28	238	121	268	610	579	409	567	164	196	470	192	3800
29	201	119	258	1020	---	369	394	149	501	384	152	1690
30	142	113	237	875	---	517	320	146	286	274	133	678
31	123	---	225	595	---	513	---	249	---	232	119	---
TOTAL	6661	5004	24584	26673	19955	19130	12024	18345	21169	56040	5713	36603
MEAN	215	167	793	860	713	617	401	592	706	1808	184	1220
MAX	1380	567	3660	2210	3000	3210	1470	2540	2360	14300	500	8400
MIN	74	98	111	245	246	225	166	146	183	148	118	94
CFSM	.83	.65	3.07	3.33	2.76	2.39	1.55	2.29	2.74	7.01	.71	4.73
IN.	.96	.72	3.54	3.85	2.88	2.76	1.73	2.65	3.05	8.08	.82	5.28

CAL YR 1974 TOTAL 139351 MEAN 382 MAX 3660 MIN 37 CFSM 1.48 IN 20.09
WTR YR 1975 TOTAL 251909 MEAN 690 MAX 14300 MIN 74 CFSM 2.67 IN 36.32

PEAK DISCHARGE (BASE, 3,000 CFS)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
12-17	0915	9.18	3,890	7-15	about 0600	16.84	17,100
2-25	0930	7.99	3,200	7-21	1245	14.63	12,000
3-20	1630	9.04	3,810	9-25	unknown	unknown	about 10,000

NOTE.--No gage-height record Oct. 20-28, July 15-18, Sept. 14-22, 25-27, daily discharge figures furnished by New Jersey Bureau of Water Facilities operation for Sept. 19-22, Oct. 20-28.

01403060 Raritan River below Calco Dam, at Bound Brook, N. J.

LOCATION.--Lat 40°33'05", long 74°32'54", Somerset County, on right bank 1,000 ft (305 m) downstream from Calco Dam and Cuckold Brook, 1.2 mi (1.9 km) downstream from Millstone River, and 1.2 mi (1.9 km) southwest of Bound Brook.

DRAINAGE AREA.--785 mi² (2,033 km²), includes 11 mi² (28 km²) which drain into the Delaware and Raritan Canal.

PERIOD OF RECORD.--September 1903 to March 1909, October 1944 to current year. Monthly discharge only for some periods, published in WSP 1302. Prior to October 1966 published as "Raritan River at Bound Brook" (sta. 01403000).

GAGE.--Water-stage recorder. Datum of gage is at mean sea level. Sept. 12, 1903 to Mar. 31, 1909, nonrecording gages at highway bridge, 1.2 mi (1.9 km) downstream at different datum. October 1944 to Sept. 30, 1966, water-stage recorder and concrete control at site 1,120 ft (341 m) upstream at datum 18.06 ft (5.505 m) higher.

AVERAGE DISCHARGE.--36 years (1903-8, 1944-75), 1,256 ft³/s (35.57 m³/s), adjusted for diversion by Elizabethtown Water Co. since 1944 and to Round Valley Reservoir since 1966.

EXTREMES.--Current year: Maximum discharge, 27,100 ft³/s (767 m³/s) July 14 (elevation, 30.27 ft or 9.226 m); minimum, 230 ft³/s (6.51 m³/s) Sept. 11 (elevation, 16.83 ft or 5.130 m).
Period of record: Maximum discharge, 46,100 ft³/s (1,310 m³/s) Aug. 28, 1971 (elevation, 37.47 ft or 11.421 m, from floodmark); minimum daily, 37 ft³/s (1.05 m³/s) Sept. 6, 1964.

REMARKS.--Records good. Water diverted 1.0 mi (1.6 km) above station by Elizabethtown Water Co. for municipal supply (see Raritan River Basin, diversions). Flow regulated by Spruce Run Reservoir (see Raritan River Basin, reservoirs in). Diversion to Round Valley Reservoir (see Raritan River Basin, diversions). Slight diurnal fluctuation at low flow. Records of water quality for the current year for Raritan River at South Bound Brook (sta 01404100) are published in Section 2 of this report.

REVISIONS (WATER YEARS).--WSP 1552: 1903-7, 1946(M), 1949, 1952(P).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1090	351	369	936	1740	1750	1310	757	5320	874	906	457
2	826	347	6690	1160	1490	1490	1190	867	3010	657	831	410
3	727	425	2500	901	1310	1330	2000	887	1370	629	754	390
4	623	455	1960	846	1150	1210	2960	1420	1020	721	712	359
5	523	406	1330	800	1150	1110	1760	5710	957	566	1010	301
6	465	397	1030	715	1300	986	1450	2640	6240	595	766	341
7	416	369	900	1970	1590	950	1220	2280	5010	629	926	350
8	383	365	5170	1630	1410	972	1090	1730	2470	589	773	301
9	351	356	5710	6100	1170	887	979	1250	1570	554	653	280
10	342	333	2590	4590	950	820	908	1100	1180	769	588	277
11	324	310	1740	2660	908	794	860	979	1020	589	543	241
12	310	347	1390	2240	709	1020	833	880	3180	480	511	299
13	306	2520	1190	3040	880	1790	788	2190	10600	7360	470	751
14	288	1310	1070	4180	901	1350	721	7000	4960	20900	469	475
15	293	922	979	2340	833	1710	709	3380	2490	23300	438	350
16	2600	807	4640	1670	820	2080	775	3230	1950	13200	661	314
17	3690	686	9990	1370	1020	1670	727	2770	2410	7230	804	297
18	1470	612	4840	1880	3110	1370	662	1750	1470	3540	599	287
19	1070	561	2470	4730	3670	2710	657	1450	1420	2110	510	377
20	887	555	1660	5960	3000	16500	662	1170	2500	1690	437	436
21	739	657	1370	3320	1970	6840	606	1020	1450	18200	393	581
22	645	612	1230	2270	1560	3110	523	901	1100	12000	382	724
23	578	523	1100	1900	2670	2730	470	800	885	5280	383	4010
24	523	470	1020	1700	8700	2380	703	739	824	2250	434	9900
25	475	460	1020	2930	11700	3020	2150	680	894	6100	4240	22200
26	470	416	1100	5060	5240	2280	3110	623	703	4570	1960	17100
27	440	360	908	2680	2950	1780	1870	578	651	2310	973	10600
28	402	356	853	1920	2180	1430	1260	539	697	1780	700	8470
29	392	351	807	3920	---	1340	993	455	2070	1470	554	3010
30	374	333	775	3410	---	1850	840	455	1400	1180	561	2060
31	356	---	739	2080	---	1750	---	1100	---	1010	533	---
TOTAL	22378	16972	69140	80908	65981	71009	34786	51330	71621	143332	24454	94748
MEAN	722	566	2230	2610	2356	2291	1160	1656	2387	4624	789	3158
MAX	3690	2520	9990	6100	11700	16500	3110	7000	10600	23300	4240	22200
MIN	288	310	349	715	709	794	470	455	651	480	382	241

CAL YR 1974 TOTAL 468311 MEAN 1228 MAX 9990 MIN 160
WTR YR 1975 TOTAL 746659 MEAN 2046 MAX 23300 MIN 241

PEAK DISCHARGE (BASE, 12,000 CFS)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.h.	DISCHARGE
12-17	0145	25.74	13,900	7-14	2300	30.27	27,100
2-25	0630	25.97	14,600	7-21	1630	29.24	24,300
3-20	1030	28.19	21,200	9-25	1245	29.09	23,900
6-13	1415	25.10	12,200				

01403500 Green Brook at Plainfield, N. J.

LOCATION.--Lat 40°36'53", long 74°25'55", Union County, on left bank 20 ft (6 m) downstream from Sycamore Avenue Bridge in Plainfield and 1.0 mi (1.6 km) upstream from Stony Brook.

DRAINAGE AREA.--9.75 mi² (25.25 km²).

PERIOD OF RECORD.--May 1938 to current year.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 70.37 ft (21.449 m) above mean sea level.

AVERAGE DISCHARGE.--37 years, 12.5 ft³/s (0.354 m³/s).

EXTREMES.--Current year: Maximum discharge, 1,540 ft³/s (43.6 m³/s) July 14 (gage height, 4.90 ft or 1.494 m, from crest-stage gage); minimum, 1.2 ft³/s (0.034 m³/s) Oct. 11, 12 (gage height, 0.67 ft or 0.204 m).

Period of record: Maximum discharge, 2,890 ft³/s (81.8 m³/s) July 23, 1938 (gage height, 5.82 ft or 1.774 m) from rating curve extended above 1,300 ft³/s (36.8 m³/s) on basis of contracted-opening measurement of peak flow (an unknown additional amount probably bypassed gage); no flow part or all of day at times in most years.

REMARKS.--Records good except those from Jan. 29 to July 24, which are fair. Water diverted from Baltusrol well field by Commonwealth Water Co., and from wells in vicinity of Mountainside and Scotch Plains by Plainfield-Union Water Co., for municipal supply and from private and industrial wells in Plainfield and vicinity. Diurnal fluctuation at low flow caused by pumping from wells near brook in Plainfield. During extreme high stages there probably is some overflow above gage from Green Brook basin to adjacent Stony Brook and Cedar Brook basins.

REVISIONS (WATER YEARS).--WSP 921: 1938-40. WRD-NJ 1969: 1966-68. WRD-NJ 1973: 1968(M), 1969(M), 1971(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.6	2.0	3.1	12	15	15	11	7.1	20	3.1	7.1	3.3
2	3.5	1.8	136	9.3	13	12	9.7	16	22	3.3	6.4	2.9
3	3.1	1.8	19	5.8	11	11	16	10	12	4.3	5.5	2.7
4	2.7	2.2	11	5.5	9.7	8.9	20	15	6.7	4.3	6.1	2.9
5	2.2	1.8	8.0	5.2	9.7	8.0	12	45	8.9	2.9	7.6	2.2
6	2.0	2.2	6.7	4.6	13	7.6	10	35	41	2.2	5.5	2.9
7	2.0	1.6	6.7	22	13	7.6	8.9	25	40	2.4	16	2.9
8	1.8	1.6	105	12	11	7.1	8.0	18	16	2.7	6.7	2.4
9	2.0	1.8	33	57	9.3	5.5	7.6	15	12	8.9	5.5	2.0
10	1.6	1.6	15	30	6.7	5.8	6.7	10	8.4	5.8	4.9	1.8
11	1.5	1.6	11	20	6.4	6.1	6.4	8.0	7.1	3.1	4.9	2.7
12	1.5	8.9	9.7	16	7.0	14	6.4	7.0	39	3.3	5.2	11
13	2.0	27	8.4	33	8.5	19	5.5	25	78	63	4.3	4.6
14	2.2	6.1	7.6	46	10	13	5.5	57	27	320	3.3	1.8
15	2.0	5.5	6.7	25	7.0	16	5.5	35	15	136	3.3	2.2
16	86	4.3	107	16	6.4	14	7.6	40	15	53	13	2.4
17	15	3.5	76	13	9.7	14	4.9	30	12	28	4.6	2.2
18	6.4	3.3	24	18	26	11	4.6	20	9.7	19	3.7	2.2
19	4.6	3.5	16	40	36	15	4.9	14	12	14	2.7	11
20	3.7	5.8	13	53	22	45	4.3	10	11	14	2.9	4.9
21	3.3	11	11	26	15	34	3.7	9.0	6.4	76	2.9	7.6
22	3.1	6.7	9.7	18	12	23	3.7	7.8	5.5	27	3.1	4.0
23	3.1	4.6	8.9	15	32	21	3.5	7.2	4.9	16	2.7	100
24	3.1	2.7	8.0	14	114	25	14	6.8	9.3	9.3	7.1	158
25	2.7	2.9	10	29	57	25	28	10	6.4	199	73	223
26	2.9	2.7	8.4	36	26	15	25	8.0	4.6	47	53	319
27	2.2	2.0	6.7	18	18	12	13	5.5	4.0	20	5.5	226
28	2.2	2.2	6.1	13	16	11	9.0	4.9	6.7	15	4.0	35
29	2.2	2.4	5.5	36	---	11	7.0	4.3	6.7	12	3.3	20
30	2.0	2.0	5.5	34	---	22	5.8	5.5	4.3	9.7	6.7	15
31	2.2	---	4.9	20	---	14	---	8.9	---	8.4	3.5	---
TOTAL	179.4	127.1	707.6	702.4	540.4	468.6	278.2	520.0	471.6	1132.7	284.0	1178.6
MEAN	5.79	4.24	22.8	22.7	19.3	15.1	9.27	16.8	15.7	36.5	9.16	39.3
MAX	86	27	136	57	114	45	28	57	78	320	73	319
MIN	1.5	1.6	3.1	4.6	6.4	5.5	3.5	4.3	4.0	2.2	2.7	1.8

CAL YR 1974 TOTAL 4940.93 MEAN 13.5 MAX 176 MIN .55
WTR YR 1975 TOTAL 6590.60 MEAN 18.1 MAX 320 MIN 1.5

PEAK DISCHARGE (BASE, 380 CFS)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
7-14	unknown	4.90	1,540	8-25	0345	2.76	454
7-21	unknown	3.97	985	9-26	1715	4.42	1,250
7-25	0300	3.04	573				

RARITAN RIVER BASIN

01403540 Stony Brook at Watchung, N. J.

LOCATION.--Lat 40°38'12", long 74°27'06", Somerset County, on right bank at Watchung Borough Administration Building, 150 ft (45.7 m) downstream from Watchung Avenue Bridge and 2.9 mi (4.7 km) upstream from confluence with Green Brook.

DRAINAGE AREA.--5.51 mi^2 (14.3 km^2).

PERIOD OF RECORD.--October 1974 to September 1975.

GAGE.--Water-stage recorder. Altitude of gage is 174 ft (53.0 m), from topographic map.

EXTREMES.--Maximum discharge during period, 4,420 ft^3/s (125 m^3/s) July 14 (gage height, 10.40 ft or 3.170 m); minimum daily 0.90 ft^3/s (0.025 m^3/s) Oct. 10, 11.
Flood of Aug. 2, 1973, reached a stage of 14.5 ft (4.420 m) from floodmark, discharge, 11,400 ft^3/s (232 m^3/s) from slope-area measurements.

REMARKS.--Records fair. Some regulation from Watchung and Best Lakes directly upstream from station.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.5	1.1	2.2	7.0	13	13	9.8	6.0	63	2.8	7.0	2.7
2	2.8	1.0	108	7.0	11	11	8.6	2.9	9.3	2.7	6.0	2.2
3	2.1	1.1	15	5.0	10	10	31	2.6	5.7	2.7	5.0	1.6
4	1.7	1.3	10	4.3	9.0	8.2	14	41	4.6	2.7	5.4	1.9
5	1.5	1.1	7.0	4.6	8.6	7.6	11	42	19	2.6	6.6	1.4
6	1.3	1.3	6.2	4.0	10	6.6	8.9	19	70	2.6	5.0	2.1
7	1.2	1.1	5.9	19	11	6.6	8.0	19	18	2.5	14	1.8
8	1.1	1.0	84	9.0	10	6.2	7.4	13	11	2.3	10	1.4
9	1.0	1.0	23	47	8.2	4.8	6.7	11	8.9	4.1	7.0	1.2
10	.90	1.0	13	17	7.0	4.4	6.1	10	6.4	2.9	4.6	1.5
11	.90	1.0	10	16	6.0	4.5	5.7	8.9	5.8	2.3	4.0	10
12	1.0	8.0	9.0	14	7.0	22	5.3	8.1	98	2.2	4.5	7.0
13	1.2	20	7.6	25	8.0	16	4.8	50	74	44	4.2	1.5
14	1.2	6.0	7.0	41	9.4	11	4.6	36	22	358	3.0	1.0
15	1.2	4.0	5.8	21	7.4	15	4.7	15	15	126	2.3	1.3
16	64	3.3	112	14	6.0	14	5.7	30	15	30	11	1.6
17	14	2.7	45	12	7.0	14	4.5	14	13	4.8	6.0	1.4
18	4.0	2.6	23	15	20	11	4.2	11	10	8.2	3.2	1.3
19	3.5	3.1	10	33	28	83	4.2	9.3	9.4	5.8	2.0	9.0
20	2.7	4.2	11	41	28	83	3.7	7.7	9.0	9.0	1.6	4.5
21	2.3	8.8	10	20	12	27	9.3	6.8	6.2	73	1.5	7.0
22	2.1	6.0	9.4	15	11	21	4.8	5.9	4.8	9.8	1.4	3.5
23	2.2	3.5	7.8	12	31	19	2.8	5.0	4.4	6.2	1.3	110
24	2.0	1.8	7.4	12	116	23	10	4.6	12	5.4	2.0	280
25	1.8	1.9	9.4	24	46	22	32	4.8	6.7	175	25	40
26	1.8	1.7	7.0	29	21	14	26	4.0	4.0	45	56	20
27	1.5	1.3	5.8	15	17	11	11	3.6	3.6	22	25	13
28	1.3	1.3	5.0	12	14	10	23	3.0	3.4	14	13	11
29	1.2	1.4	4.6	20	---	10	25	2.6	4.2	11	2.5	9.0
30	1.1	1.3	4.6	34	---	22	10	3.6	3.6	9.0	6.0	7.0
31	1.2	---	4.3	18	---	12	---	3.8	---	8.0	4.5	---
TOTAL	131.30	94.9	590.0	566.0	484.6	542.9	312.8	404.2	540.0	996.6	250.6	556.9
MEAN	4.24	3.16	19.0	18.3	17.3	17.5	10.4	13.0	18.0	32.1	8.08	18.6
MAX	64	20	112	47	116	83	32	50	98	358	56	280
MIN	.90	1.0	2.2	4.0	6.0	4.4	2.8	2.6	3.4	2.2	1.3	1.0
CFSM	.77	.57	3.45	3.32	3.14	3.18	1.89	2.36	3.27	5.83	1.47	3.38
IN.	.89	.64	3.98	3.83	3.27	3.66	2.11	2.73	3.65	6.73	1.69	3.76

CAL YR 1974 TOTAL - MEAN - MAX - MIN - CFSM - IN -
WTR YR 1975 TOTAL 5471.70 MEAN 15.0 MAX 358 MIN .90 CFSM 2.72 IN 36.93

NOTE.--No gage-height record Oct. 1 to Dec. 2, July 25 to Aug. 20, and Aug. 26 to Sept. 30.

PEAK DISCHARGE (BASE, 250 CFS)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
12-16	1515	4.31	388	7-14	1300	10.40	4,420
2-24	0355	3.66	256	7-25	0115	4.02	328
3-19	1915	4.51	438	9-26	unknown	unknown	about 2,100
6-01	0510	3.83	290				

01403900 Bound Brook at Middlesex, N. J.

LOCATION.--Lat 40°35'06", long 74°30'29", Somerset County, on right bank along Green Brook Road, 107 ft (33 m) upstream from the bridge and intersection with Sebrings Mill Road, 0.4 mi (0.6 km) downstream of mouth of Green Brook, 2.3 mi (3.7 km) upstream from mouth.

DRAINAGE AREA.--48.4 mi² (125.4 km²).

PERIOD OF RECORD.--October 1972 to current year.

GAGE.--Water-stage recorder. Datum of gage is at mean sea level.

EXTREMES.--Current year: Maximum discharge, about 3,100 ft³/s (87.8 m³/s) July 15; minimum, 5.5 ft³/s (0.16 m³/s) Nov. 10, 11.
Period of record: Maximum discharge, 7,000 ft³/s (198 m³/s) Aug. 2, 1973 (elevation, 41.18 ft or 12.552 m); minimum daily, 2.5 ft³/s (0.07 m) July 21, 1974.

REMARKS.--Records fair except those for periods of no gage-height record, which are poor.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	48	13	21	65	65	76	56	60	150	42	42	17
2	35	13	539	52	56	65	51	100	170	33	37	16
3	27	14	137	34	51	58	152	80	95	30	32	17
4	21	14	59	33	46	51	94	250	62	38	32	16
5	18	14	44	38	55	49	56	390	110	30	56	16
6	15	16	37	26	83	47	48	300	300	17	34	19
7	14	14	33	134	83	47	46	260	200	19	95	15
8	13	13	362	61	62	46	44	150	130	21	35	13
9	13	10	262	328	49	36	42	110	100	90	30	14
10	11	7.8	79	118	44	35	41	84	78	70	23	13
11	10	7.8	56	88	40	39	38	68	38	26	23	13
12	10	20	49	68	48	106	34	100	410	40	24	40
13	13	131	43	288	70	120	32	300	545	60	23	46
14	15	38	38	182	62	79	30	470	182	1500	22	15
15	14	28	34	77	40	112	32	250	89	2500	20	12
16	180	25	358	61	41	86	47	330	91	900	82	14
17	400	24	494	52	67	73	36	210	140	250	39	14
18	90	24	114	166	[illegible]	62	33	195	74	114	23	14
19	47	28	74	228	164	272	32	120	67	85	20	51
20	35	45	61	260	106	523	30	85	92	94	17	52
21	29	40	52	97	77	152	27	76	48	682	16	36
22	25	30	46	71	64	106	35	69	35	250	16	31
23	27	21	40	71	166	106	25	62	34	85	14	384
24	24	20	38	65	576	105	150	59	70	66	42	654
25	20	20	40	140	388	118	285	89	126	398	230	1080
26	19	20	43	164	138	74	185	50	48	374	220	1200
27	16	19	34	74	97	39	100	45	36	188	51	1500
28	15	19	23	62	82	54	68	39	46	73	29	350
29	16	16	29	262	---	51	54	34	61	61	22	110
30	14	15	29	132	---	116	52	50	127	51	34	86
31	14	---	27	79	---	71	---	73	---	45	21	---
TOTAL	1246	759.6	3293	3468	3002	2993	1875	4526	3829	8152	1380	5954
MEAN	40.2	25.3	106	112	107	96.5	62.5	146	128	263	44.5	198
MAX	400	131	539	328	576	523	285	470	545	2500	230	1500
MIN	10	7.8	21	26	40	35	25	34	34	17	14	12

CAL YR 1974 TOTAL 21050.2 MEAN 57.7 MAX 600 MIN 2.5
WTR YR 1975 TOTAL 40477.6 MEAN 111 MAX 2500 MIN 7.8

PEAK DISCHARGE (BASE, 700 CFS)

DATE	TIME	ELEV.	DISCHARGE	DATE	TIME	ELEV.	DISCHARGE
10-17	unknown	unknown	about 800	7-15	unknown	unknown	about 3,100
12-02	1145	32.98	894	7-21	0815	33.07	968
12-16	2115	33.20	1,020	7-26	0015	32.21	718
2-24	2300	32.28	735	9-27	0700	35.96	2,510
3-20	0100	32.96	928				

NOTE.--No gage-height record Oct. 1-25, Apr. 24 to June 10, July 4-16.

01405000 Lawrence Brook at Farrington Dam, N. J.

LOCATION.--Lat 40°27'00", long 74°27'05", Middlesex County, on left bank 300 ft (90 m) upstream from Farrington Dam, 0.7 mi (1.1 km) southwest of Milltown, and 5.4 mi (8.7 km) upstream from mouth.

DRAINAGE AREA.--34.4 mi² (89.1 km²).

PERIOD OF RECORD.--May 1927 to current year.

GAGE.--Water-stage recorder above concrete dam. Datum of gage is 25.73 ft (7.843 m) above mean sea level.

AVERAGE DISCHARGE.--48 years, 39.2 ft³/s (1.110 m³/s), 15.48 in/yr (393 mm/yr), adjusted for storage.

EXTREMES.--Current year: Maximum discharge, 4,920 ft³/s (139 m³/s) July 21 (gage height, 26.93 ft or 8.208 m) from rating curve extended above 1,100 ft³/s (31 m³/s) on basis of weir formula; minimum daily, 14 ft³/s (0.40 m³/s) many days in Nov. and Sept.

Period of record: Maximum discharge, 4.920 ft³/s (139 m³/s) July 21, 1975 (gage height, 26.93 ft or 8.208 m) from rating curve extended above 1,100 ft³/s (31 m³/s) on basis of weir formula; no flow at times when gates in dam were closed and there was no flow over spillway.

REMARKS.--Records good. Records given herein include flow over dam and through blowoff gate. Blowoff gate was open Oct. 1 to Dec. 2. Flow regulated by Farrington Reservoir, capacity, 655,250,000 gal (2.48 hm³).

COOPERATION.--Water-stage recorder inspected and records of openings of blowoff gates furnished by employees of city of New Brunswick.

REVISIONS (WATER YEARS).--WSP 781: Drainage area. WSP 1432: 1959(P).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	25	18	15	39	55	55	50	36	212	26	36	19
2	22	18	211	40	45	50	45	41	116	26	31	19
3	21	18	104	30	41	41	116	41	55	21	26	17
4	20	16	50	27	36	36	110	122	41	31	26	17
5	19	14	36	24	45	36	60	249	50	21	36	17
6	18	14	29	22	95	36	50	102	296	19	26	17
7	17	14	26	77	70	36	45	122	203	19	26	17
8	16	14	142	56	60	36	41	75	88	19	26	17
9	15	14	136	155	50	26	36	55	55	17	21	16
10	17	14	60	91	41	26	36	45	45	17	19	15
11	18	14	41	50	36	31	31	41	36	19	19	15
12	18	14	34	40	41	50	31	31	120	21	19	16
13	18	14	30	116	36	70	26	186	336	186	17	19
14	18	14	28	131	31	70	26	485	120	723	17	15
15	18	14	24	57	31	102	31	116	70	643	16	14
16	18	14	302	40	36	80	36	152	102	268	55	14
17	24	15	312	32	55	60	36	110	110	120	50	14
18	29	15	95	73	135	50	31	65	65	80	31	14
19	25	15	56	148	122	107	26	55	55	60	21	17
20	22	15	45	212	87	203	26	45	95	122	21	19
21	20	16	39	95	65	95	21	36	60	2040	19	36
22	19	16	35	65	50	65	21	36	41	800	19	21
23	18	17	31	60	95	70	19	31	36	135	19	220
24	18	16	29	55	357	75	41	26	41	80	36	597
25	18	16	32	110	260	95	116	21	41	169	177	899
26	18	16	32	135	110	70	169	26	31	177	70	845
27	18	16	29	70	70	50	80	26	31	70	41	674
28	18	16	27	95	60	45	95	21	36	65	31	169
29	18	15	25	122	---	45	45	17	45	36	26	87
30	18	15	25	95	---	75	41	21	36	45	21	60
31	18	---	24	65	---	65	---	31	---	41	19	---
TOTAL	599	457	2104	2403	2183	1946	1497	2466	2676	6124	1017	3936
MEAN	19.3	15.2	67.9	77.5	78.0	62.8	49.9	79.5	89.2	198	32.8	131
MAX	29	18	312	212	357	203	169	485	336	2040	177	899
MIN	15	14	15	22	31	26	19	17	31	17	16	14
(†)	-4.8	+3.7	+1.5	+.2	0	0	-.1	0	0	-1.0	-.1	+1.0
MEAN‡	14.5	18.9	69.4	77.7	78.0	62.8	49.8	79.5	89.2	197	32.7	132
CFSM‡	.42	.55	2.02	2.26	2.27	1.83	1.45	2.31	2.59	5.73	.95	3.84
IN‡	.48	.61	2.33	2.60	2.36	2.10	1.61	2.66	2.89	6.62	1.09	4.27

CAL YR 1974 TOTAL 14526.0 MEAN 39.8 MAX 312 MIN 3.0 MEAN‡ 39.8 CFSM‡ 1.16 IN‡ 15.69
WTR YR 1975 TOTAL 27408.0 MEAN 75.1 MAX 2040 MIN 14 MEAN‡ 75.1 CFSM‡ 2.18 IN‡ 29.62

PEAK DISCHARGE (BASE, 450 CFS)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
12-16	2000	25.46	810	7-21	0500	26.93	4,920
5-14	0200	25.58	1,030	9-26	2100	25.99	1,940
7-14	1900	25.93	1,790				

† Change in contents, in cubic feet per second, in Farrington Reservoir.
‡ Adjusted for change in contents.

RARITAN RIVER BASIN

01405400 Manalapan Brook at Spotswood, N. J.

LOCATION.--Lat 40°23'22", long 74°23'27", Middlesex County, on right bank of Devoe Lake Dam in Spotswood, 0.1 mi (0.2 km) upstream from Cedar Brook, and 0.6 mi (1.0 km) upstream from confluence with Matchaponix Brook.

DRAINAGE AREA.--40.7 mi² (105.4 km²).

PERIOD OF RECORD.--January 1957 to current year.

GAGE.--Water-stage recorder above concrete dam. Datum of gage is at mean sea level (levels by Duhernal Water System). January 1957 to September 1966 at datum 17.72 ft (5.401 m) higher.

AVERAGE DISCHARGE.--18 years, 66.3 ft³/s (1.878 m³/s), 22.12 in/yr (562 mm/yr).

EXTREMES.--Current year: Maximum discharge, 1,080 ft³/s (30.6 m³/s) July 21 (elevation, 19.41 ft or 5.916 m), waste gate open; no flow on days when gate was closed and dam was filling.

Period of record: Maximum discharge, 1,650 ft³/s (46.7 m³/s) May 30, 1968 (elevation 19.90 ft or 6.066 m), waste gates open; no flow for part or all of day in some years when gates were closed and water was below spillway.

REMARKS.--Records good except those for the periods when waste gates were open, which are fair. Records given herein include flow over dam, and through waste gates. Waste gates open Nov. 27-30, Feb. 24, July 14, 15, and July 21, 22. Some regulation by Lake Manalapan, Helmetta Pond, and Devoe Lake. Records of water quality for the current year are published in Section 2 of this report.

REVISIONS (WATER YEARS).--WSP 1722: 1957-60.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	47	31	29	63	77	78	74	64	110	39	50	37
2	36	31	139	77	68	72	89	64	86	34	48	35
3	31	42	176	64	61	67	90	61	55	34	45	32
4	29	67	197	56	61	62	87	70	67	36	44	31
5	29	44	80	53	64	60	77	162	47	36	48	31
6	27	42	52	50	87	58	66	197	139	47	50	34
7	27	56	49	76	114	61	42	126	176	49	51	31
8	25	82	86	103	98	60	42	90	110	39	53	31
9	25	23	157	138	76	56	58	70	67	34	48	31
10	25	21	166	192	63	55	58	70	69	44	42	29
11	25	21	106	127	54	52	58	70	25	52	37	29
12	25	36	61	103	59	62	58	67	61	39	36	39
13	25	49	52	118	53	113	58	90	166	94	36	58
14	25	55	69	196	55	89	56	157	252	234	35	64
15	25	70	67	162	64	132	55	162	126	226	34	34
16	74	70	110	86	98	127	58	134	52	302	63	31
17	139	25	292	95	71	112	58	152	90	305	23	31
18	143	23	309	77	115	81	55	110	70	127	84	31
19	82	39	215	102	116	70	55	82	64	75	60	34
20	52	42	93	217	117	129	55	74	90	46	53	36
21	44	36	75	160	104	151	55	70	102	674	56	42
22	42	50	66	116	71	85	52	67	61	739	47	39
23	39	19	60	90	87	85	49	64	47	370	42	134
24	36	36	58	86	172	96	55	61	42	96	70	321
25	36	36	60	102	247	122	82	95	39	107	220	423
26	36	39	64	136	226	74	122	52	44	140	290	661
27	36	52	59	137	96	75	171	47	42	106	165	470
28	34	57	55	140	98	73	102	44	44	70	70	365
29	34	21	52	111	—	70	70	47	55	65	54	283
30	34	22	51	114	—	79	67	36	47	59	42	66
31	34	—	50	89	—	76	—	39	—	53	40	—
TOTAL	1321	1241	3201	3472	2622	2590	2062	2670	2429	4379	2036	3433
MEAN	42.6	41.4	103	112	93.6	83.5	68.7	86.1	81.0	141	65.7	114
MAX	143	82	309	217	247	151	171	197	252	739	290	661
MIN	25	19	29	50	53	52	42	36	25	34	23	29
CFSM	1.05	1.02	2.53	2.75	2.30	2.05	1.69	2.12	1.99	3.46	1.61	2.80
IN.	1.21	1.13	2.93	3.17	2.40	2.37	1.88	2.44	2.22	4.00	1.86	3.14

CAL YR 1974 TOTAL 24539 MEAN 67.2 MAX 309 MIN 19 CFSM 1.65 IN 22.43
WTR YR 1975 TOTAL 31456 MEAN 86.2 MAX 739 MIN 19 CFSM 2.12 IN 28.75

01405500 South River at Old Bridge, N. J.

LOCATION.--Lat 40°24'22", long 74°22'06", Middlesex County, on right abutment of Duhernal Dam, 0.6 mi (1.0 km) south of Old Bridge, 2.3 mi (3.7 km) upstream from Deep Run, and 9.1 mi (14.6 km) upstream from mouth.

DRAINAGE AREA.--94.6 mi² (245.0 km²).

PERIOD OF RECORD.--August 1939 to current year.

GAGE.--Water-stage recorder above concrete dam. Datum of gage is at mean sea level.

AVERAGE DISCHARGE.--36 years, 139 ft³/s (3.936 m³/s), unadjusted.

EXTREMES.--Current year: Maximum discharge, 3,560 ft³/s (101 m³/s) July 21 (elevation, 11.55 ft or 3.520 m); minimum, 33 ft³/s (0.93 m³/s) Nov. 30 (elevation, 9.68 ft or 2.950 m).

Period of record: Maximum discharge, 4,250 ft³/s (120 m³/s) Sept. 15, 1944 (elevation, 11.71 ft or 3.569 m), waste gates open; maximum gage height, 11.73 ft (3.575 m) Aug. 28, 1971; no flow on days when waste gates were closed and water was below spillway.

REMARKS.--Records poor. The flow past this station is affected by pumpage from well fields for industrial use by Duhernal Water System. Some regulation by Duhernal Lake, capacity, 138,000,000 gal (522,300 m³), Lake Manalapan, Devoe Lake, and several small ponds in headwater tributaries.

COOPERATION.--Water-stage recorder inspected by Duhernal Water System.

REVISIONS (WATER YEARS).--WSP 1902: 1957.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	110	52	45	145	172	183	172	148	240	80	100	67
2	75	50	368	189	157	169	155	156	222	66	92	64
3	59	66	703	145	144	151	276	154	136	62	80	61
4	58	95	398	124	131	139	405	197	97	74	73	55
5	48	85	285	119	149	131	292	957	90	71	86	51
6	46	72	136	103	235	126	236	490	446	69	87	53
7	45	75	124	196	274	135	196	316	532	90	93	53
8	43	119	215	295	207	133	150	230	272	72	97	52
9	41	94	567	352	161	123	135	181	172	61	86	49
10	40	43	306	511	140	113	130	164	135	71	76	46
11	40	61	235	289	123	119	127	161	86	103	68	45
12	38	56	159	246	129	140	122	136	164	75	66	56
13	40	124	136	283	117	300	117	263	635	196	64	130
14	41	140	119	566	119	228	113	490	675	950	64	92
15	40	134	110	360	133	302	115	361	294	686	59	62
16	166	119	265	288	130	289	149	365	161	1190	116	52
17	454	69	1080	149	181	228	146	390	320	880	227	51
18	315	50	872	174	334	183	124	240	235	473	130	50
19	166	61	398	501	310	190	114	182	179	286	102	53
20	110	69	215	573	240	415	110	150	317	196	94	63
21	85	69	173	400	210	337	109	145	240	2300	103	71
22	72	95	152	261	161	285	103	140	152	1940	84	67
23	64	50	134	214	213	194	98	130	113	699	75	230
24	61	94	129	199	502	200	122	120	94	233	82	780
25	59	64	134	269	902	309	283	104	84	244	400	1690
26	59	61	159	430	636	286	429	100	84	365	540	1730
27	56	78	134	307	275	173	390	92	80	243	209	1630
28	54	102	119	257	284	140	225	83	82	179	127	1070
29	52	66	110	275	---	154	175	77	131	151	93	520
30	54	37	106	289	---	194	154	78	106	130	77	284
31	52	---	102	285	---	216	---	69	---	112	71	---
TOTAL	2635	2248	8170	8592	6777	6233	5558	6467	6562	11801	3729	9229
MEAN	85.0	74.9	264	277	242	201	185	209	219	383	120	308
MAX	454	140	1080	573	902	415	405	957	675	2300	540	1730
MIN	38	37	45	103	117	113	98	69	80	61	59	45

CAL YR 1974 TOTAL 56140 MEAN 154 MAX 1080 MIN 26
WTR YR 1975 TOTAL 78081 MEAN 214 MAX 2300 MIN 37

Reservoirs in Raritan River basin

01396790 **SPRUCE RUN RESERVOIR.**--Lat 40°38'30", long 74°55'19", Hunterdon County, at dam on Spruce Run, 0.5 mi (0.8 km) north of Clinton, and 0.6 mi (1.0 km) upstream from mouth. Drainage area, 41.3 mi^2 (107.0 km^2). Period of record, November 1963 to current year. Nonrecording gage read daily. Datum of gage is at mean sea level. Extremes for current year: Maximum contents observed, 11,200,000,000 gal (42.392 hm^3) July 14 (elevation, 273.57 ft or 83.384 m); minimum observed, 10,700,000,000 gal (40.500 hm^3) Nov. 25 (elevation, 272.39 ft or 83.024 m). Extremes for period of record: Maximum contents observed, 11,400,000,000 gal (43.149 hm^3) Aug. 3, 1966 (elevation, 273.92 ft or 83.491 m).

Reservoir is formed by earthfill dam with concrete spillway; dam completed in October 1963 with crest of spillway 273.00 ft (83.210 m). Usable capacity, 11,000,000,000 gal (41.635 hm^3). Dead storage 300,000 gal (1,136 m^3). Outflow mostly regulated by gates. Water is released to maintain minimum flow on the South Branch Raritan River. Records given herein represent usable capacity. Elevation record and capacity table furnished by New Jersey Department of Environmental Protection. Reservoir is used for recreation.

01397050 **ROUND VALLEY RESERVOIR.**--Lat 40°36'39", long 74°50'42", Hunterdon County, at main dam on Prescott Brook, 1.8 mi (2.9 km) south of Lebanon, 3.2 mi (5.1 km) upstream from mouth, and 4.5 mi (7.2 km) west of Whitehouse. Drainage area, 5.7 mi^2 (14.8 km^2). Period of record, March 1966 to current year. Nonrecording gage read daily. Datum of gage is at mean sea level. Extremes for current year: Maximum contents observed, 55,400,000,000 gal (209.69 hm^3) June 15 (elevation, 385.63 ft or 117.540 m); minimum observed, 53,600,000,000 gal (202.88 hm^3) Dec. 1 (elevation, 383.31 ft or 116.832 m).

Reservoir is formed by earthfill dam at main dam on Prescott Brook, and two dams on South Branch Rockaway River at Lebanon. Dam completed in March 1966. Capacity at spillway level (elevation, 385.00 ft or 117.348 m); 55,000,000,000 gal (208.175 hm^3). Reservoir is used primarily for storage and is filled by pumping from South Branch Raritan River at Hamden Pumping Station (see below). Outflow is controlled by operation of gate in pipe in dam. Elevation record furnished by New Jersey Department of Environmental Protection.

MONTHEND ELEVATION AND CONTENTS, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

Date	Elevation* (feet)	Contents (million gallons)	Change in contents (equivalent in cfs)	Elevation* (feet)	Contents (million gallons)	Change in contents (equivalent in cfs)
	01396790 Spruce Run Reservoir			01397050 Round Valley Reservoir		
Sept. 30	273.13	11,000	-	383.66	53,900	-
Oct. 31	272.55	9,900	-54.9	383.41	53,700	-10.0
Nov. 30	272.44	10,700	+41.3	383.32	53,600	-5.2
Dec. 31	272.52	10,800	+5.0	383.62	53,800	+10.0
CAL YR 1974	-	-	-.8	-	-	-.8
Jan. 31	273.02	11,000	+10.0	384.00	54,200	+20.0
Feb. 28	272.69	10,800	-11.1	384.29	54,400	+11.1
Mar. 31	272.75	10,900	+5.0	384.66	54,700	+15.0
Apr. 30	273.01	11,000	+5.2	384.73	54,700	0
May 31	273.05	11,000	0	385.18	55,200	+25.0
June 30	273.23	11,100	+5.2	385.27	55,300	+5.2
July 31	273.04	11,000	-5.0	385.21	55,200	-5.0
Aug. 31	273.00	11,000	0	384.50	54,600	-29.9
Sept. 30	273.07	11,000	0	384.73	54,700	+5.2
WTR YR 1975	-	-	0	-	-	+3.4

* Elevation at 0800 on first day of following month.

Diversions in Raritan River basin

01396920 Water is diverted 4.0 mi (6.4 km) upstream from the gaging station on South Branch Raritan River at Stanton (see sta 01397000), at the Hamden Pumping Station, for storage in Round Valley Reservoir. Records furnished by New Jersey Department of Environmental Protection.

01400490 Johns-Manville Products Corporation diverts water 1,500 ft (457 m) upstream from the gaging station on Raritan River at Manville (see sta 01400500) for cooling purposes and returns the water to the river 0.6 mi (1.0 km) below the station. Records furnished by the Johns-Manville Products Corporation.

01400509 Elizabethtown Water Company diverts water from the Raritan and Millstone Rivers just upstream from the mouth of the Millstone River. Records given herein represent the total diversion from both rivers. Records furnished by the Elizabethtown Water Company.

DIVERSIONS, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

Month	Hamden Pumping Station	Johns-Manville Products Corporation	Elizabethtown Water Company
October	0	9.2	106
November	0	9.3	96.7
December	0	8.3	97.9
CAL YR 1974	0	9.1	106
January	0	9.0	111
February	0	8.6	113
March	0	7.6	111
April	0	7.5	113
May	0	7.6	111
June	0	7.4	108
July	0	8.2	113
August	0	7.6	115
September	0	8.3	111
WTR YR 1975	0	8.2	109

01407500 Swimming River near Red Bank, N. J.

LOCATION.--Lat 40°19'10", long 74°06'55", Monmouth County, on left bank to 50 ft (15 m) upstream from dam at Swimming River Reservoir, 3.3 mi (5.3 km) southwest of Red Bank, and 4.8 mi (7.7 km) upstream from mouth.

DRAINAGE AREA.--48.5 mi^2 (125.6 km^2).

PERIOD OF RECORD.--August 1922 to current year.

GAGE.--Water-stage recorder above dam. Datum of gage is 30.00 ft (9.144 m) above mean sea level. Prior to Jan. 19, 1962, at site 800 ft (240 m) upstream at datum 17.67 ft (5.386 m) lower. Jan. 19 to Mar. 30, 1962, nonrecording gage, 700 ft (210 m) upstream at datum 13.87 ft (4.228 m) lower.

AVERAGE DISCHARGE.--53 years, 79.2 ft^3/s (2.243 m^3/s), 22.18 in/yr (563 mm/yr), adjusted for storage and diversion.

EXTREMES.--Current year: Maximum discharge, 2,170 ft^3/s (61.5 m^3/s) July 21 (gage height, 6.38 ft or 1.944 m), from rating curve extended above 1,000 ft^3/s (28.3 m^3/s) on basis of weir formula; minimum daily, 2.3 ft^3/s (0.065 m^3/s) Oct. 12.

Period of record: Maximum discharge, 8,910 ft^3/s (252 m^3/s) Oct. 27, 1943 (gage height, 8.96 ft or 2.731 m, site and datum then in use) from rating curve extended above 1,000 ft^3/s (28.3 m^3/s) on basis of weir formula; no flow on some days in many years.

REMARKS.--Records good except those below 10 ft^3/s (0.28 m^3/s), which are fair. Records given herein represent flow over spillway and flow or leakage through blowoff gates (leakage only through blowoff gates during the year). Diversion above station for municipal supply. Flow occasionally regulated by Swimming River Reservoir.

COOPERATION.--Water-stage recorder inspected and record of diversion furnished by Monmouth Consolidated Water Co.

REVISIONS (WATER YEARS).--WSP 781: Drainage area. WSP 891: 1939.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	13	12	7.5	61	72	78	57	49	33	19	13	11
2	11	12	445	50	67	73	55	61	42	15	11	11
3	9.5	17	146	36	60	63	224	56	25	14	9.6	10
4	8.3	26	51	35	52	53	155	139	22	17	9.1	9.0
5	7.7	20	36	32	106	54	76	352	20	15	10	8.1
6	6.9	18	33	29	135	55	67	126	386	12	10	7.5
7	5.9	17	29	110	106	60	61	109	164	12	11	7.2
8	4.9	15	125	68	71	65	58	77	61	11	12	6.8
9	4.4	13	146	243	64	47	56	65	44	9.8	12	6.3
10	3.9	12	51	137	56	51	52	70	35	9.0	11	5.4
11	3.3	11	36	94	56	63	52	74	27	8.9	9.9	4.7
12	2.8	11	36	76	68	86	53	53	135	9.8	13	4.6
13	3.0	23	33	200	64	122	48	155	446	65	11	5.4
14	3.0	23	33	220	55	120	45	110	117	188	9.9	6.3
15	3.0	15	29	88	54	180	50	66	69	217	7.8	6.6
16	136	12	490	67	62	95	74	158	81	267	45	6.6
17	138	11	520	55	87	77	58	104	177	94	68	6.6
18	56	11	125	106	159	70	49	69	74	51	29	6.4
19	33	10	74	227	112	125	49	58	68	31	18	6.4
20	23	11	62	214	79	243	37	47	168	25	18	6.7
21	17	11	56	119	68	108	28	39	59	992	17	6.9
22	15	9.5	51	88	59	85	32	34	37	158	14	7.2
23	13	8.7	46	77	126	82	33	34	27	64	12	16
24	13	8.7	41	74	428	94	54	28	21	42	11	267
25	13	8.3	58	148	395	147	145	18	20	45	307	416
26	13	8.7	45	190	124	88	220	21	20	68	110	509
27	12	8.0	36	86	85	65	88	20	23	40	45	583
28	11	8.0	33	74	90	62	63	16	38	29	23	179
29	11	7.7	32	138	---	66	53	13	57	23	16	95
30	11	7.7	32	96	---	110	49	11	30	17	14	73
31	11	---	31	74	---	81	---	12	---	15	13	---
TOTAL	616.6	386.3	2968.5	3320	2950	2768	2141	2236	2534	2583.5	920.3	2294.7
MEAN	19.9	12.9	95.8	107	105	89.3	71.4	72.1	84.5	83.3	29.7	76.5
MAX	138	26	520	243	428	243	224	352	446	992	307	583
MIN	2.8	7.7	7.5	29	52	47	28	11	20	8.9	7.8	4.6
(†)	33.8	32.0	36.2	37.0	38.0	31.7	32.6	36.9	45.5	46.7	44.5	40.5
MEAN‡	53.7	44.9	132	144	143	121	104	109	130	130	74.2	117
CFSM‡	1.11	.93	2.72	2.97	2.95	2.49	2.14	2.25	2.68	2.68	1.53	2.41
IN‡	1.28	1.03	3.14	3.41	3.08	2.88	2.39	2.59	3.00	3.09	1.76	2.68

CAL YR 1974 TOTAL 18336.97 MEAN 50.2 MAX 520 MIN .30 MEAN‡ 86.8 CFSM‡ 1.79 IN‡ 24.27
WTR YR 1975 TOTAL 25718.98 MEAN 70.5 MAX 992 MIN 2.8 MEAN‡ 108 CFSM‡ 2.23 IN‡ 30.33

† Diversion and change in contents in Swimming River Reservoir, in cubic feet per second.
‡ Adjusted for diversion and change in contents.

01407705 Shark River near Neptune City, N. J.

LOCATION.--Lat 40°11'56", long 74°04'14", Monmouth County, on left bank 100 ft (30 m) upstream from bridge on Remsen Mill Road, 0.3 mi (0.5 km) downstream from Robins Swamp Brook, and 1.7 mi (2.7 km) west of Neptune City.

DRAINAGE AREA.--9.96 mi^2 (25.80 km^2).

PERIOD OF RECORD.--October 1966 to current year.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 7.05 ft (2.149 m) above mean sea level.

AVERAGE DISCHARGE.--9 years, 14.1 ft^3/s (0.399 m^3/s), unadjusted.

EXTREMES.--Current year: Maximum daily discharge, 170 ft^3/s (4.81 m^3/s) Dec. 16; minimum daily, 2.4 ft^3/s (0.068 m^3/s) July 28, Aug. 3.

Period of record: Maximum discharge, 580 ft^3/s (16.4 m^3/s) Dec. 26, 1969 (gage height, 7.94 ft or 2.420 m); minimum, 0.11 ft^3/s (0.003 m^3/s) Sept. 23, 1972.

REMARKS.--Records poor. Diversion above station by Monmouth Consolidated Water Co. for municipal supply and by farmers for irrigation.

COOPERATION.--Water-stage recorder inspected by Monmouth Consolidated Water Co.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975 MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.2	6.0	8.6	10	14	14	16	16	18	6.6	2.8	5.2
2	5.2	8.0	109	13	12	13	16	16	18	5.6	2.6	5.2
3	5.2	9.6	26	12	6.9	12	73	17	12	9.5	2.4	4.4
4	5.2	8.0	12	9.0	6.9	10	51	69	9.7	14	2.8	4.0
5	5.2	6.5	9.1	8.0	24	9.6	28	153	9.9	11	6.6	4.4
6	4.8	6.5	8.2	9.0	32	9.5	22	42	57	11	3.0	5.2
7	4.8	11	8.2	32	24	9.5	17	28	30	11	7.1	5.2
8	4.8	12	34	23	17	9.5	15	24	17	11	4.8	5.2
9	5.0	10	23	76	14	8.5	14	21	14	11	4.0	7.1
10	6.8	4.5	11	34	11	7.4	14	19	12	10	2.8	6.6
11	7.1	6.0	9.5	27	10	9.7	15	18	11	11	6.6	3.0
12	7.1	8.0	8.8	25	10	18	13	17	50	13	8.2	11
13	7.1	11	8.2	31	10	24	11	24	166	67	8.2	11
14	7.1	9.0	8.1	39	9.0	32	11	23	36	106	8.2	6.1
15	7.1	6.2	8.1	26	7.9	39	11	19	23	67	8.2	5.2
16	42	5.6	170	19	8.0	21	15	85	17	30	14	4.0
17	35	5.4	140	16	11	16	13	39	16	22	15	4.0
18	11	5.1	17	17	16	14	11	25	14	14	4.0	4.0
19	8.4	5.5	15	34	18	20	9.6	22	16	9.5	5.2	7.7
20	7.5	8.4	12	36	15	34	9.0	19	20	7.7	8.0	5.2
21	6.8	10	11	28	10	23	8.5	17	10	37	8.2	6.1
22	6.5	5.2	10	23	8.0	17	8.2	17	6.1	14	4.8	4.8
23	6.3	4.1	9.6	20	23	16	8.2	16	6.1	5.2	4.4	31
24	6.2	5.4	9.2	17	37	16	20	15	7.7	3.5	4.0	89
25	6.1	6.2	10	22	45	26	63	14	8.2	6.6	42	132
26	6.1	7.0	11	34	26	23	85	14	7.1	7.7	97	64
27	6.0	8.0	9.2	26	18	17	25	14	7.1	3.5	17	46
28	6.0	6.2	8.4	21	15	15	17	13	7.1	2.4	7.1	30
29	6.0	3.5	7.6	20	---	14	15	12	7.1	5.2	4.8	19
30	6.0	6.0	7.2	19	---	14	15	11	7.1	3.0	5.6	13
31	5.9	---	8.0	14	---	15	---	11	---	3.0	5.2	---
TOTAL	260	213	747	740	458	526	649	850	656	539	327	553
MEAN	8.40	7.13	24.1	[illegible]	16.4	17.0	21.7	27.4	21.9	17.4	10.5	18.5
MAX	42	12	170	76	45	39	85	153	166	106	97	132
MIN	4.8	3.5	7.2	8.0	6.9	7.4	8.2	11	6.1	2.4	2.4	3.0

CAL YR 1974 TOTAL 4357.9 MEAN 11.9 MAX 170 MIN 1.3
WTR YR 1975 TOTAL 6522.9 MEAN 17.9 MAX 170 MIN 2.4

01407760 Jumping Brook near Neptune City, N. J.

LOCATION.--Lat 40°12'13", long 74°03'58", Monmouth County, on left bank 50 ft (15 m) downstream from dam on Jumping Brook Reservoir, 0.85 mi (1.37 km) upstream from mouth, and 1.4 mi (2.3 km) west of Neptune City.

DRAINAGE AREA.--6.43 mi² (16.65 km²).

PERIOD OF RECORD.--October 1966 to September 1975 (discontinued).

GAGE.--Water-stage recorder and concrete control. Datum of gage is 13.76 ft (4.194 m) above mean sea level.

AVERAGE DISCHARGE.--9 years, 10.6 ft³/s (0.300 m³/s), unadjusted.

EXTREMES.--Current year: Maximum daily discharge, 335 ft³/s (9.49 m³/s) Dec. 16; maximum gage height, 7.00 ft or 2.134 m; minimum daily discharge, 2.0 ft³/s (0.057 m³/s) Aug. 14.
Period of record: Maximum discharge, 1,830 ft³/s (51.8 m³/s) Sept. 12, 1971 (gage height, 6.34 ft or 1.932 m) from rating curve extended above 150 ft³/s (4.25 m³/s); no flow June 7, 1971.

REMARKS.--Records fair except those above 150 ft³/s (4.25 m³/s), which are poor. Diversion above station by Monmouth Consolidated Water Co., and by farmers for irrigation.

COOPERATION.--Water-stage recorder inspected by Monmouth Consolidated Water Co.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.9	3.4	6.0	15	7.8	8.2	9.0	7.3	11	2.8	2.2	3.2
2	3.6	4.1	67	9.5	7.8	7.3	7.1	8.3	7.8	3.6	3.4	3.2
3	3.4	9.7	14	7.9	6.6	6.7	56	7.4	5.1	4.5	3.4	3.4
4	3.4	6.7	8.3	7.2	6.2	6.6	22	114	3.8	5.1	2.5	2.9
5	3.2	4.7	6.7	6.4	28	5.9	11	110	5.9	3.3	4.8	3.1
6	3.2	4.4	5.3	5.9	19	5.8	9.2	22	31	2.9	3.9	2.9
7	3.4	4.6	5.0	25	11	6.6	8.6	14	12	2.6	4.7	3.1
8	2.9	3.8	25	10	8.4	6.5	7.6	10	7.2	3.6	3.6	3.1
9	2.7	3.5	16	47	7.8	5.8	7.2	9.2	5.2	3.2	3.2	2.9
10	2.8	4.0	8.8	17	7.3	6.4	7.3	9.5	4.8	3.8	3.0	2.7
11	2.6	3.6	7.4	12	6.5	8.3	6.6	8.9	4.0	5.3	3.0	3.2
12	3.5	3.6	5.9	9.8	6.8	14	6.1	8.3	52	6.6	2.4	11
13	3.2	9.1	5.3	34	7.0	14	6.2	14	84	33	2.3	8.1
14	3.2	5.3	5.2	26	6.0	23	6.4	11	17	44	2.0	3.9
15	2.8	4.1	5.5	11	6.3	24	6.9	8.7	9.5	37	2.5	3.2
16	47	3.5	335	8.3	9.3	11	8.9	44	8.1	15	15	3.2
17	18	3.3	114	7.9	12	9.0	6.8	18	8.1	10	6.3	3.4
18	7.9	3.4	19	18	16	7.8	5.9	11	7.6	7.3	4.8	3.4
19	5.4	4.0	13	22	10	17	6.7	9.0	12	5.6	3.3	7.4
20	5.2	5.0	10	23	8.9	22	5.9	8.4	13	5.6	12	4.6
21	4.3	6.6	9.7	13	8.4	11	5.5	8.1	6.4	26	4.3	4.1
22	4.1	4.3	9.3	9.4	7.9	8.8	4.7	7.3	5.2	8.6	3.4	3.9
23	4.6	4.3	8.7	8.6	19	8.3	5.0	6.8	3.8	6.0	3.3	25
24	3.8	3.6	8.7	8.2	31	18	14	6.9	4.9	3.9	3.5	49
25	3.7	4.3	11	21	28	20	34	6.4	5.0	7.3	153	96
26	4.4	4.4	9.6	22	12	10	43	5.8	4.1	6.2	10	119
27	3.7	3.5	8.9	11	9.0	8.6	13	5.6	3.6	4.0	6.4	50
28	3.6	4.1	7.4	8.4	8.3	7.5	8.9	4.9	3.9	3.4	4.5	15
29	3.4	3.4	6.8	15	---	7.4	8.4	4.6	3.9	3.1	3.9	10
30	4.1	3.3	7.3	9.8	---	13	7.5	4.3	4.1	3.2	3.6	8.5
31	3.5	---	7.2	8.2	---	9.6	---	4.8	---	2.8	3.2	---
TOTAL	174.5	135.6	777.0	457.5	322.3	338.1	355.4	518.5	354.0	279.3	286.6	462.4
MEAN	5.63	4.52	25.1	14.8	11.5	10.9	11.8	16.7	11.8	9.01	9.25	15.4
MAX	47	9.7	335	47	31	24	56	114	84	44	153	119
MIN	2.6	3.3	5.0	5.9	6.0	5.8	4.7	4.3	3.6	2.6	2.0	2.7

CAL YR 1974 TOTAL 3701.2 MEAN 10.1 MAX 335 MIN 1.5
WTR YR 1975 TOTAL 4461.2 MEAN 12.2 MAX 335 MIN 2.0

MANASQUAN RIVER BASIN

01408000 Manasquan River at Squankum, N. J.

LOCATION.--Lat 40°09'47", long 74°09'21", Monmouth County, on right bank 20 ft (6.1 m) downstream from bridge on State Highway 547 (Squankum Park Road) in Squankum and 0.4 mi (0.6 km) downstream from Marshbog Brook.

DRAINAGE AREA.--43.4 mi² (112.4 km²).

PERIOD OF RECORD.--July 1931 to current year. Monthly discharge only for July 1931, published in WSP 1302.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 18.82 ft (5.736 m) above mean sea level. Prior to Aug. 13, 1940, water-stage recorder at site 80 ft (24 m) upstream at same datum.

AVERAGE DISCHARGE.--44 years, 74.2 ft³/s (2.101 m³/s), 23.22 in/yr (590 mm/yr).

EXTREMES.--Current year: Maximum discharge, 1,330 ft³/s (37.7 m³/s) Dec. 17 (gage height, 8.46 ft or 2.579 m); minimum, 34 ft³/s (0.96 m³/s) Oct. 13 (gage height, 2.57 ft or 0.783 m).
Period of record: Maximum discharge, 2,940 ft³/s (83.3 m³/s) Sept. 21, 1938 (gage height, 12.45 ft or 3.795 m, from floodmark, site then in use), from rating curve extended above 900 ft³/s (25.5 m³/s) on basis of contracted-opening measurement of peak flow; minimum, 12.9 ft³/s (0.37 m³/s) Sept. 10, 1932.

REMARKS.--Records good. Records of water quality for the current year are published in Section 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	43	44	44	66	88	94	87	85	74	52	47	43
2	40	44	430	80	85	88	82	87	78	49	46	44
3	39	55	129	83	80	82	185	81	59	49	44	44
4	39	52	80	70	77	80	177	121	58	54	44	43
5	37	48	67	68	113	78	105	380	55	47	52	43
6	37	48	61	64	136	77	96	141	301	45	47	41
7	36	45	56	93	114	78	88	119	126	45	50	40
8	37	44	126	130	93	78	88	105	88	44	50	40
9	37	44	165	185	85	71	82	97	70	44	46	41
10	38	43	82	230	80	71	80	93	63	44	43	39
11	37	41	70	180	78	77	78	93	58	45	41	39
12	36	45	63	140	78	85	77	87	126	45	43	45
13	36	80	60	200	77	116	74	126	624	125	39	66
14	35	55	59	261	74	116	73	108	156	191	39	44
15	36	49	56	111	73	179	74	93	100	201	39	40
16	231	46	289	94	80	105	96	201	100	203	78	41
17	207	44	846	87	100	94	82	136	177	138	64	43
18	75	44	144	103	145	85	78	100	90	84	50	41
19	60	46	106	229	111	100	77	91	82	67	46	50
20	54	47	94	205	94	205	75	85	113	59	41	48
21	50	54	87	119	85	113	70	80	78	326	48	44
22	49	49	80	103	81	99	68	77	68	102	49	41
23	48	47	71	97	124	94	68	73	61	75	45	81
24	48	46	68	96	251	99	84	70	59	66	44	243
25	47	46	74	143	406	158	227	64	61	66	109	335
26	47	47	74	219	141	106	319	63	56	74	85	401
27	45	47	70	111	109	93	121	63	56	59	63	545
28	44	45	68	97	100	85	99	61	59	55	53	133
29	45	43	64	121	---	84	91	59	63	53	48	94
30	45	41	64	105	---	105	87	56	55	49	46	82
31	45	---	61	94	---	96	---	58	---	48	44	---
TOTAL	1703	1429	3878	3984	3158	3091	3088	3153	3198	2584	1683	2874
MEAN	55	48	123	129	113	100	103	102	107	83	54	96
MAX	231	80	846	261	406	205	319	380	624	326	109	545
MIN	35	41	44	64	73	71	68	56	55	44	39	39
CFSM	1.27	1.11	2.83	2.97	2.60	2.30	2.37	2.35	2.47	1.91	1.24	2.21
IN.	1.46	1.22	3.28	3.41	2.71	2.65	2.65	2.70	2.74	2.21	1.44	2.46

CAL YR 1974 TOTAL 30284 MEAN 83.0 MAX 846 MIN 30 CFSM 1.91 IN 25.96
WTR YR 1975 TOTAL 33773 MEAN 93.0 MAX 846 MIN 35 CFSM 2.14 IN 28.95

PEAK DISCHARGE (BASE, 600 CFS)

DATE	TIME	G.H.	DISCHARGE
12-02	1915	6.11	640
12-17	0615	8.46	1,330
6-13	1345	6.46	706
7-21	1700	5.92	606

01408120 North Branch Metedeconk River near Lakewood, N. J.

LOCATION.--Lat 40°05'30", long 74°09'10", Ocean County, on upstream right bank at bridge on State Route 549, 1.0 mi (1.6 km) upstream from confluence with South Branch Metedeconk River and 2.3 mi (3.7 km) east of Lakewood.

DRAINAGE AREA.--34.9 mi² (90.4 km²).

PERIOD OF RECORD.--October 1972 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 10 ft (3.0 m), from topographic map.

EXTREMES.--Current year: Maximum discharge, 564 ft³/s (16.0 m³/s) Dec. 17 (gage height, 7.52 ft or 2.292 m); minimum, 22 ft³/s (0.62 m³/s) Aug. 16 (gage height, 2.59 ft or 0.789 m).
Period of record: Maximum discharge, 564 ft³/s (16.0 m³/s) Dec. 17, 1974 (gage height, 7.52 ft or 2.292 m); minimum, 17 ft³/s (0.48 m³/s) Sept. 13, 1973, July 21-24, Aug. 1, 2, 1974.

REMARKS.--Records fair.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	37	34	32	60	71	73	70	68	45	37	37	29
2	31	33	127	60	67	67	65	68	58	34	31	30
3	29	36	172	55	62	61	92	67	48	34	30	29
4	28	37	134	50	59	58	140	91	40	34	29	28
5	27	36	92	47	73	56	110	215	38	34	35	27
6	27	35	72	45	105	56	90	196	91	33	37	28
7	26	34	47	80	105	56	75	144	106	34	40	27
8	26	32	69	90	93	58	70	113	100	35	35	28
9	26	31	99	130	82	56	65	82	74	35	33	28
10	26	31	101	151	69	53	62	70	51	35	30	26
11	26	30	80	130	61	57	60	67	43	36	29	25
12	26	31	62	111	60	66	58	65	66	38	29	29
13	27	47	48	116	59	95	56	72	181	50	27	88
14	27	56	43	150	56	102	54	88	246	90	26	48
15	28	46	41	143	56	126	52	86	171	150	24	31
16	76	36	162	109	57	121	60	125	122	170	42	30
17	126	34	479	87	70	96	70	148	81	170	61	29
18	126	35	256	73	90	82	66	129	77	110	47	29
19	85	32	173	106	97	70	62	95	70	58	35	34
20	59	32	127	128	94	120	58	71	83	40	32	36
21	40	40	92	132	83	170	54	61	78	43	30	33
22	37	38	72	113	70	110	50	57	63	37	28	31
23	35	35	63	95	68	70	46	55	48	40	29	70
24	35	33	54	78	111	65	54	52	41	47	27	170
25	34	33	58	86	160	68	134	48	38	35	69	270
26	35	34	56	116	171	135	240	46	37	33	61	170
27	35	33	54	120	140	120	189	45	38	31	46	115
28	33	32	52	102	103	70	135	43	38	36	36	70
29	35	31	50	88	---	65	105	38	39	45	33	50
30	33	30	49	82	---	70	75	37	41	47	30	40
31	33	---	49	78	---	80	---	38	---	43	29	---
TOTAL	1274	1057	3065	3011	2400	2552	2517	2580	2252	1694	1107	1678
MEAN	41.1	35.2	98.9	97.1	85.7	82.3	83.9	83.2	75.1	54.6	35.7	55.9
MAX	126	56	479	151	171	170	240	215	246	170	69	270
MIN	26	30	32	45	56	53	46	37	37	31	24	25
CFSM	1.18	1.01	2.83	2.78	2.46	2.36	2.40	2.38	2.15	1.56	1.02	1.60
IN.	1.36	1.13	3.27	3.21	2.56	2.72	2.68	2.75	2.40	1.81	1.18	1.79

CAL YR 1974 TOTAL 21050 MEAN 57.7 MAX 479 MIN 17 CFSM 1.65 IN 22.44
WTR YR 1975 TOTAL 25187 MEAN 69.0 MAX 479 MIN 24 CFSM 1.98 IN 26.85

PEAK DISCHARGE (BASE, 250 CFS)

DATE	TIME	G.H.	DISCHARGE
12-17	0345	7.52	564
4-26	1330	6.24	251
6-14	0330	6.37	274
9-25	unknown	unknown	about 280

01408140 South Branch Metedeconk River at Lakewood, N. J.

LOCATION.--Lat 40°05'12", long 74°12'45", Ocean County, on right bank 15 ft (4.6 m) upstream from bridge on State Route 88 (Cedar Bridge Avenue), 0.2 mi (0.3 km) downstream from Lake Carasaljo, and 0.3 mi (0.5 km) south of Lakewood.

DRAINAGE AREA.--26.0 mi² (67.3 km²).

PERIOD OF RECORD.--October 1972 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 40 ft (12.2 m), from topographic map.

EXTREMES.--Current year: Maximum discharge, about 340 ft³/s (9.63 m³/s) Dec. 3; minimum daily, 10 ft³/s (0.28 m³/s) June 11.

Period of record: Maximum discharge, 412 ft³/s (11.7 m³/s) Nov. 8, 1972 (gage height, 5.87 ft or 1.789 m); minimum daily, 9.8 ft³/s (0.28 m³/s) Oct. 26, 27, 1974.

REMARKS.--Records poor. Occasional regulation from cranberry bogs and lakes upstream. Possible gate operation on Lake Carasaljo.

REVISIONS.--Revised figures of discharge, in cubic feet per second, for high-water periods in water year 1974 superceding figures published in WRD-NJ 1974 are given below:

Oct. 30, 1973	315	Dec. 23, 1973	245
Dec. 22, 1973	280	Dec. 24, 1973	190

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	49	28	33	50	77	58	60	25	38	75	29	25
2	72	29	160	63	61	50	63	56	74	47	27	25
3	46	31	230	59	40	47	101	78	79	44	27	25
4	30	29	140	54	40	45	109	83	42	40	28	23
5	27	28	86	50	49	43	73	104	27	22	33	22
6	24	27	62	46	61	41	78	162	61	14	35	22
7	22	26	49	42	83	40	77	131	103	24	37	22
8	20	25	26	108	97	40	74	68	120	33	36	22
9	19	25	80	123	86	41	70	68	119	41	33	22
10	18	25	65	113	81	43	68	68	67	38	31	22
11	18	17	52	110	77	46	36	67	10	49	29	22
12	20	13	45	98	53	61	10	65	53	47	27	29
13	21	23	34	85	40	57	24	66	120	70	26	65
14	25	42	32	86	40	65	35	66	170	122	26	40
15	28	72	25	91	40	75	42	68	151	121	25	34
16	86	60	150	94	42	101	75	81	114	123	52	30
17	124	53	280	89	47	97	93	85	73	125	55	28
18	116	51	150	85	63	89	81	94	59	121	56	28
19	93	54	110	84	89	75	38	93	74	75	37	29
20	47	24	80	86	108	68	30	81	80	48	26	31
21	31	23	60	94	100	60	32	73	63	75	26	32
22	29	23	48	98	70	56	35	69	60	46	26	30
23	28	26	47	92	48	55	40	40	51	62	25	56
24	27	27	49	83	63	55	46	17	40	80	25	120
25	27	29	52	83	107	58	89	45	37	70	55	148
26	27	31	54	82	133	64	139	71	33	21	35	145
27	27	31	56	83	124	82	138	66	23	25	35	112
28	27	31	54	85	116	62	129	33	25	31	31	133
29	27	30	52	85	---	46	113	15	36	33	26	142
30	27	30	50	81	---	51	53	18	38	33	25	107
31	26	---	45	79	---	54	---	25	---	32	25	---
TOTAL	1208	963	2466	2561	2035	1825	2051	2081	2071	1787	1009	1591
MEAN	39.0	32.1	79.5	82.6	72.7	58.9	68.4	67.1	69.0	57.6	32.5	53.0
MAX	124	72	280	123	133	101	139	162	170	125	56	148
MIN	18	13	25	42	40	40	10	15	10	14	25	22

CAL YR 1974 TOTAL 20788 MEAN 57.0 MAX 280 MIN 10
WTR YR 1975 TOTAL 21648 MEAN 59.3 MAX 280 MIN 10

PEAK DISCHARGE (BASE, 280 CFS)

DATE	TIME	G.H.	DISCHARGE
12-03	unknown	unknown	about 340
12-16	unknown	unknown	about 320

NOTE.--Doubtful or no gage-height record Oct. 1 to July 1.

01408500 Toms River near Toms River, N. J.

LOCATION.--Lat 39°59'10", long 74°13'29", Ocean County, on left bank 1.9 mi (3.1 km) downstream from Union Branch and 2.6 mi (4.2 km) northwest of Toms River.

DRAINAGE AREA.--124 mi² (321 km²).

PERIOD OF RECORD.--October 1928 to current year. Monthly discharge only for October, November 1928, published in WSP 1302.

GAGE.--Water-stage recorder. Datum of gage is 8.10 ft (2.469 m) above mean sea level.

AVERAGE DISCHARGE.--47 years, 215 ft³/s (6.089 m³/s), unadjusted.

EXTREMES.--Current year: Maximum discharge, about 750 ft³/s (21.2 m³/s) Dec. 18; minimum, 87 ft³/s (2.46 m³/s) Sept. 12 (gage height, 3.18 ft or 0.969 m).

Period of record: Maximum discharge, 2,000 ft³/s (56.6 m³/s) Sept. 23, 1938 (gage height, 12.50 ft or 3.810 m, from floodmark) from rating curve extended above 1,500 ft³/s (42 m³/s); minimum, 46 ft³/s (1.30 m³/s) many days in August and September 1966 (gage height, 2.70 ft or 0.823 m).

REMARKS.--Records good. Diversion since July 18, 1966 by Toms River Chemical Co., 800 ft (240 m) upstream from station. The effluent from this plant is discharged through a pipeline directly into the Atlantic Ocean. Records of water quality for the current year are published in Section 2 of this report.

REVISIONS (WATER YEARS).--WSP 1702: 1938.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	146	124	114	210	283	359	268	307	183	177	122	100
2	135	124	194	210	265	305	267	269	193	172	124	98
3	126	123	242	220	250	269	315	251	192	167	121	97
4	120	123	297	220	237	246	347	253	179	175	117	96
5	115	125	349	210	250	226	350	336	185	168	143	93
6	113	133	302	210	267	219	366	368	220	161	161	98
7	107	125	255	210	277	215	340	441	265	150	167	99
8	104	121	228	240	302	216	312	436	314	150	161	97
9	102	119	239	310	308	210	279	383	313	153	157	95
10	100	119	263	343	288	205	248	322	259	156	146	92
11	98	110	287	392	263	202	230	283	209	161	131	91
12	97	110	283	411	247	208	220	263	227	165	125	92
13	98	119	266	411	233	237	213	247	287	196	121	121
14	99	131	250	422	226	263	205	268	463	279	134	140
15	101	139	240	431	220	314	205	290	597	350	140	130
16	145	138	400	432	219	336	219	336	471	477	159	119
17	194	125	660	393	225	341	225	393	390	535	186	113
18	226	120	710	350	243	313	230	420	298	513	206	109
19	287	113	660	345	268	292	213	432	274	407	209	110
20	296	110	540	354	295	303	185	372	251	346	175	116
21	246	126	350	399	302	305	179	285	218	320	151	116
22	193	131	290	408	283	336	188	258	198	290	137	109
23	169	129	240	379	271	330	184	234	177	280	130	129
24	154	126	250	340	290	300	186	218	162	275	125	218
25	145	123	250	326	355	316	225	206	154	230	128	312
26	144	124	249	337	438	332	310	197	156	195	133	460
27	148	121	247	350	459	351	438	190	161	180	125	210
28	141	121	241	375	417	330	514	185	159	162	120	170
29	128	118	230	358	---	292	450	174	159	144	120	140
30	125	114	223	324	---	276	374	169	167	143	110	120
31	125	---	220	296	---	268	---	168	---	132	105	---
TOTAL	4527	3683	9599	10216	7979	8723	8285	8954	7489	7409	4389	4098
MEAN	146	123	310	330	285	281	276	289	250	239	142	137
MAX	296	139	710	432	459	359	514	441	597	535	209	460
MIN	97	110	114	210	219	202	179	168	154	132	105	91
CFSM	1.18	.99	2.50	2.66	2.30	2.27	2.23	2.33	2.02	1.93	1.15	1.10
IN.	1.36	1.10	2.88	3.06	2.39	2.62	2.49	2.69	2.25	2.22	1.32	1.23

CAL YR 1974 TOTAL 76756 MEAN 210 MAX 710 MIN 82 CFSM 1.69 IN 23.03
WTR YR 1975 TOTAL 85351 MEAN 234 MAX 710 MIN 91 CFSM 1.89 IN 25.61

NOTE.--No gage-height record Oct. 26 to Nov. 27 and Dec. 13-25.

01409095 Oyster Creek near Brookville, N. J.

LOCATION.--Lat 39°47'54", long 74°15'02", Ocean County, on left bank 100 ft (30 m) upstream from bridge on State Highway 532, 1.5 mi (2.4 km) downstream from reservoir at Wells Mill, and 3.2 mi (5.1 km) northeast of Brookville.

DRAINAGE AREA.--7.43 mi² (19.24 km²).

PERIOD OF RECORD.--July 1965 to current year.

GAGE.--Water-stage recorder. Datum of gage is 24.74 ft (7.541 m) above mean sea level.

AVERAGE DISCHARGE.--10 years, 28.4 ft³/s (0.804 m³/s), 51.91 in/yr (1,319 mm/yr).

EXTREMES.--Current year: Maximum discharge, 99 ft³/s (2.80 m³/s) Sept. 25 (gage height, 5.48 ft or 1.670 m); minimum, 14 ft³/s (0.40 m³/s) Oct. 6 (gage height, 3.75 ft or 1.143 m).
Period of record: Maximum discharge, 232 ft³/s (6.57 m³/s) Dec. 30, 1969 (gage height, 6.18 ft or 1.884 m); minimum, 12 ft³/s (0.340 m³/s) Aug. 6, 7, 1965 (gage height, 3.46 ft or 1.055 m).

REMARKS.--Records excellent. Flow probably contains considerable ground-water inflow from other surface drainage basins. Some minor regulation possible from small reservoir and cranberry bogs upstream. Records of water quality for the current year are published in Section 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	24	20	21	28	28	27	28	26	30	26	22	21
2	24	20	57	26	27	27	27	28	34	25	22	22
3	22	20	46	24	27	28	41	28	30	28	21	22
4	22	20	27	24	26	28	58	32	28	30	26	21
5	20	20	24	23	36	26	41	61	28	32	32	21
6	18	21	23	23	46	26	30	40	51	28	30	21
7	17	20	22	32	35	26	28	32	41	27	53	22
8	24	20	30	29	30	27	26	29	40	26	37	22
9	26	20	30	46	28	26	26	27	32	28	28	22
10	25	20	28	44	28	26	26	28	30	26	24	21
11	26	20	24	31	27	27	27	28	28	28	24	21
12	26	21	24	28	28	30	28	28	36	32	25	23
13	23	28	23	36	29	39	28	32	60	40	23	28
14	21	24	23	53	27	38	27	70	46	52	22	26
15	21	22	22	34	27	49	29	53	34	64	22	22
16	31	21	34	29	28	35	36	45	32	42	36	22
17	34	20	46	28	29	30	32	46	30	30	34	22
18	25	20	36	30	33	28	29	36	29	27	28	22
19	22	20	28	43	31	30	28	34	28	24	26	23
20	21	21	26	40	28	30	28	32	28	24	23	23
21	20	22	25	34	27	33	27	33	27	30	22	22
22	20	20	25	31	26	30	26	34	26	27	22	22
23	20	19	24	30	32	29	26	32	26	24	22	30
24	20	19	24	29	39	30	27	31	26	23	22	58
25	20	19	24	34	39	35	32	30	25	20	22	92
26	20	20	24	30	32	31	53	30	26	36	22	70
27	19	19	24	32	28	28	40	30	27	28	22	73
28	19	19	23	29	27	27	31	29	27	24	21	55
29	19	19	23	29	---	27	29	28	27	23	21	35
30	19	19	23	28	---	30	28	28	26	22	21	30
31	19	---	23	28	---	32	---	28	---	22	21	---
TOTAL	687	613	884	993	848	939	942	1064	978	933	786	934
MEAN	22	20	29	32	30	30	31	34	33	30	25	31
MAX	34	28	46	53	46	49	58	70	61	64	53	92
MIN	17	19	21	23	26	26	26	26	25	22	21	21
CFSM	2.96	2.69	3.90	4.31	4.04	4.04	4.17	4.58	4.44	4.04	3.38	4.17
IN.	3.44	3.07	4.43	4.97	4.25	4.70	4.72	5.33	4.90	4.67	3.94	4.63

CAL YR 1974 TOTAL 9841 MEAN 27.0 MAX 66 MIN 17 CFSM 3.63 IN 49.27
WTR YR 1975 TOTAL 10591 MEAN 29.0 MAX 92 MIN 17 CFSM 3.90 IN 53.03

PEAK DISCHARGE (BASE, 75 CFS)

DATE	TIME	G.H.	DISCHARGE
12-17	0600	5.11	77
5-14	1100	5.17	80
9-25	1745	5.48	99

01409280 Westecunk Creek at Stafford Forge, N. J.

LOCATION.--Lat 39°40'00", long 74°19'12", Ocean County, 30 ft (9 m) downstream from dam, 0.2 mi (0.3 km) south of Stafford Forge, 1.2 mi (1.9 km) below Log Swamp Branch, and 2 mi (3.2 km) west of Staffordville.

DRAINAGE AREA.--16.0 m² (41.4 km²).

PERIOD OF RECORD.--October 1973 to current year. Occasional low-flow measurements, water years 1969-73, at site 500 ft (150 m) downstream.

GAGE.--Water-stage recorder and wooden control. Altitude of gage is 20 ft (6.1 m), from topographic map.

EXTREMES.--Current year: Maximum discharge, 65 ft³/s (1.84 m³/s) Sept. 25 (gage height, 2.07 ft or 0.631 m); minimum daily, 22 ft³/s (0.62 m³/s) many days in Oct., Nov., Sept.
Period of record: Maximum discharge, 94 ft³/s (2.66 m³/s) Dec. 22, 1973 (gage height, 3.08 ft or 0.939 m); no flow part of May 17, 1974.

REMARKS.--Records fair except those for period of no gage-height record, which are poor. Flow regulated at times by cranberry bogs directly upstream from station.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	26	23	24	31	34	34	32	31	35	27	26	24
2	26	22	31	32	33	32	31	31	36	26	26	25
3	26	22	34	30	33	32	44	30	35	26	30	24
4	24	23	31	30	30	31	55	33	34	29	28	23
5	22	22	29	29	37	31	49	47	33	28	40	23
6	23	24	28	29	42	30	43	46	40	32	37	23
7	23	24	28	33	40	30	39	42	41	30	50	24
8	22	23	32	33	37	32	39	37	36	34	40	25
9	22	23	36	40	35	30	36	34	34	32	36	23
10	22	23	33	42	33	30	32	31	32	31	34	22
11	22	22	30	39	32	31	31	30	29	33	31	24
12	22	23	29	37	34	34	30	29	36	39	33	25
13	22	26	29	41	36	41	30	30	54	48	30	27
14	22	24	29	48	33	44	29	50	50	57	35	24
15	22	24	29	44	33	50	32	53	42	61	30	23
16	26	23	34	37	32	44	39	53	37	52	35	22
17	28	23	47	35	33	39	38	52	35	45	43	22
18	26	23	43	35	37	36	35	46	32	40	36	23
19	24	23	34	41	39	36	34	43	31	37	31	25
20	24	23	32	45	35	41	33	40	35	35	30	23
21	23	24	31	42	33	37	29	44	34	39	29	22
22	23	24	31	38	31	35	27	43	31	39	28	22
23	26	23	30	36	34	34	28	41	29	35	27	28
24	24	23	30	35	40	34	30	39	28	34	27	38
25	24	24	30	38	43	38	34	37	27	33	26	60
26	23	24	30	40	40	37	46	37	27	34	25	62
27	23	24	29	38	36	33	45	36	27	32	27	59
28	23	24	24	35	34	32	43	35	27	32	25	52
29	23	24	29	35	---	31	36	34	27	28	25	43
30	23	23	29	35	---	34	33	34	27	26	24	36
31	23	---	29	34	---	35	---	34	---	26	24	---
TOTAL	732	700	969	1137	989	1088	1082	1202	1021	1107	976	896
MEAN	23.6	23.3	31.3	36.7	35.3	35.1	36.1	38.8	34.0	35.7	31.5	29.9
MAX	28	26	47	48	43	50	55	53	54	61	50	62
MIN	22	22	24	29	30	30	27	29	27	26	24	22
CFSM	1.48	1.46	1.96	2.29	2.21	2.19	2.26	2.43	2.13	2.23	1.97	1.87
IN.	1.70	1.63	2.25	2.64	2.30	2.53	2.52	2.79	2.37	2.57	2.27	2.08

CAL YR 1974 TOTAL 11496 MEAN 31.5 MAX 50 MIN 22 CFSM 1.97 IN 26.73
WTR YR 1975 TOTAL 11899 MEAN 32.6 MAX 62 MIN 22 CFSM 2.04 IN 27.66

PEAK DISCHARGE (BASE, 60 CFS)

DATE	TIME	G.H.	DISCHARGE
7-14	1545	1.99	64
9-25	2230	2.07	65

01409400 Mullica River near Batsto, N. J.

LOCATION.--Lat 39°40'28", long 74°39'55", Atlantic County, on right bank 2.4 mi (3.9 km) upstream from Sleeper Branch and 2.5 mi (4.0 km) north of Batsto.

DRAINAGE AREA.--46.1 mi² (119.4 km²).

PERIOD OF RECORD.--September 1957 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 14 ft (4.3 m), from topographic map.

AVERAGE DISCHARGE.--18 years, 112 ft³/s (3.172 m³/s) 33.00 in/yr (838 mm/yr).

EXTREMES.--Current year: Maximum discharge, 1,380 ft³/s (37.1 m³/s) Sept. 26 (gage height, 5.50 ft or 1.676 m) minimum, 35 ft³/s (0.99 m³/s) Nov. 5 (gage height, 0.63 ft or 0.192 m).
Period of record: Maximum discharge, 1,380 ft³/s (37.1 m³/s) Sept. 26, 1975 (gage height, 5.50 ft or 1.676 m); minimum, 7.0 ft³/s (0.20 m³/s) Sept. 6-8, 1966 (gage height, 0.28 ft or 0.085 m).

REMARKS.--Records good. Flow regulated occasionally by ponds and cranberry bogs 4 to 6 mi (6 to 10 km) upstream from station.

REVISIONS (WATER YEARS).--WRD N.J. 1969: 1958(M), 1960(M), 1967-68(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	46	79	57	106	160	195	171	210	71	67	81	76
2	47	75	82	107	150	170	163	158	79	64	66	76
3	48	54	81	103	140	155	174	104	92	67	52	73
4	47	37	89	103	145	140	188	137	95	73	70	70
5	47	36	114	101	140	135	174	195	94	64	101	67
6	47	43	89	99	140	125	167	200	137	63	161	66
7	49	46	71	116	150	115	161	196	148	62	241	66
8	50	49	89	120	160	110	154	176	147	60	375	65
9	46	49	127	149	155	105	147	168	177	59	266	62
10	44	46	143	211	150	100	124	144	162	60	277	60
11	43	48	153	199	140	100	100	146	121	68	200	59
12	42	70	170	186	130	105	100	150	112	68	132	62
13	42	80	103	226	130	110	103	144	124	92	146	72
14	40	78	172	272	125	115	110	165	164	142	207	70
15	40	73	119	254	120	102	131	152	148	221	204	68
16	66	78	135	231	115	204	134	177	107	452	214	67
17	81	67	222	215	120	177	128	197	119	598	280	67
18	93	64	287	202	130	157	125	190	129	317	383	62
19	113	60	435	210	140	161	123	183	107	332	280	62
20	103	50	265	203	150	204	116	172	98	226	238	61
21	100	61	216	230	145	237	101	155	87	203	221	62
22	93	60	206	237	140	242	97	145	81	163	169	60
23	77	56	195	225	135	247	94	133	76	173	115	85
24	82	54	167	211	140	248	97	121	71	135	111	200
25	80	54	149	202	160	268	100	107	69	99	122	640
26	72	54	117	206	220	246	115	102	70	104	129	1300
27	65	55	108	201	230	220	150	98	62	117	95	1000
28	63	55	106	195	210	198	175	92	60	83	79	899
29	60	55	103	200	---	181	240	85	62	74	80	617
30	58	54	103	188	---	184	229	81	65	71	88	422
31	70	---	100	177	---	182	---	69	---	68	79	---
TOTAL	1954	1740	4473	5683	4170	5310	4199	4550	3126	4445	5338	6600
MEAN	63	58	144	183	149	171	140	147	104	143	172	223
MAX	113	80	435	272	230	268	240	210	177	598	383	1300
MIN	40	36	57	99	115	100	94	69	60	59	52	59
CFSM	1.37	1.26	3.12	3.97	3.23	3.71	3.04	3.19	2.26	3.10	3.73	4.84
IN.	1.58	1.40	3.61	4.59	3.36	4.28	3.39	3.67	2.52	3.59	4.31	5.39

CAL YR 1974 TOTAL 37158 MEAN 102 MAX 435 MIN 33 CFSM 2.21 IN 29.98
WTR YR 1975 TOTAL 51668 MEAN 142 MAX 1300 MIN 36 CFSM 3.08 IN 41.69

01409500 Batsto River at Batsto, N. J.

LOCATION.--Lat 39°38'33", long 74°39'00", Burlington County, on right bank 30 ft (9 m) downstream from bridge on State Highway 542 at Batsto and 1.0 mi (1.6 km) upstream from mouth.

DRAINAGE AREA.--70.5 mi² (182.6 km²).

PERIOD OF RECORD.--October 1927 to current year. Monthly discharge only for April to September 1939, published in WSP 1302.

GAGE.--Water-stage recorder. Concrete control since Oct. 12, 1939; prior to Mar. 24, 1939, wooden control at site 50 ft (15 m) downstream. Datum of gage is 1.4 ft (0.43 m) above mean sea level.

AVERAGE DISCHARGE.--48 years, 126 ft³/s (3.568 m³/s).

EXTREMES.--Current year: Maximum daily discharge, 829 ft³/s (23.5 m³/s) Sept. 27; minimum daily, 55 ft³/s (1.56 m³/s) Oct. 15.
Period of record: Maximum daily discharge, 1,310 ft³/s (37.1 m³/s) Aug. 24, 1933; maximum gage height, 8.7 ft (2.65 m) Aug. 20, 1939, from floodmark; minimum daily discharge, 5.7 ft³/s (0.16 m³/s) Oct. 4, 1959.

REMARKS.--Records fair. Flow occasionally regulated by sluice gates prior to December 1954 and by an automatic Bascule gate since July 1959 at Batsto Lake 300 ft (91 m) upstream, capacity, about 60,000,000 gal (227,000 m³).

REVISIONS (WATER YEARS).--WSP 781: Drainage area. WSP 1432: 1930, 1933, 1936, 1938.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	67	63	81	103	137	158	165	145	102	80	71	73
2	64	62	110	103	127	141	160	132	106	75	68	72
3	63	62	101	105	122	129	160	125	113	75	67	71
4	61	62	98	102	117	119	165	130	110	83	70	69
5	61	63	91	96	130	113	160	147	103	76	111	67
6	64	65	88	95	135	109	155	183	127	75	102	66
7	71	70	83	107	147	106	150	194	182	74	140	67
8	69	71	101	112	151	105	135	158	276	73	217	66
9	64	69	113	140	143	101	125	136	184	73	206	66
10	60	68	132	161	134	98	170	123	147	70	240	64
11	61	68	133	260	126	99	115	125	122	75	180	63
12	62	68	125	221	125	105	115	125	126	80	149	65
13	59	70	116	214	120	115	110	133	136	91	136	73
14	57	76	114	131	115	130	110	155	160	120	131	73
15	55	79	109	377	110	150	110	152	183	156	110	66
16	76	80	186	177	100	170	110	166	155	230	119	67
17	91	76	191	192	111	177	120	194	132	361	135	68
18	95	74	370	176	121	155	125	233	117	313	153	68
19	94	71	398	169	120	150	120	197	109	220	152	68
20	89	68	305	197	131	190	115	171	111	167	140	66
21	83	68	227	222	126	270	110	150	108	152	121	66
22	78	68	170	207	119	320	110	142	103	135	107	63
23	75	68	152	182	124	300	105	136	94	125	100	79
24	76	69	137	168	145	270	105	120	89	114	90	148
25	76	69	130	169	184	270	115	122	86	108	85	344
26	76	68	123	174	205	240	150	116	88	104	82	734
27	72	69	118	187	200	240	220	105	90	96	79	829
28	70	66	113	192	178	217	300	98	87	87	77	777
29	67	66	108	182	---	175	220	93	84	80	74	608
30	65	65	105	159	---	170	175	90	82	76	76	422
31	64	---	103	149	---	167	---	91	---	74	75	---
TOTAL	2185	2061	4533	5229	3819	5279	4255	4395	3718	3726	3764	5428
MEAN	70.5	68.7	146	169	136	170	142	142	124	120	121	181
MAX	95	80	398	377	205	320	300	233	276	361	204	829
MIN	55	62	81	95	100	98	105	90	82	70	67	63

CAL YR 1974 TOTAL 38678 MEAN 106 MAX 398 MIN 45
WTR YR 1975 TOTAL 48392 MEAN 133 MAX 829 MIN 55

NOTE.--No gage-height record Oct. 26 to Nov. 26 and Mar. 14 to Apr. 19.

01409810 West Branch Wading River near Jenkins, N. J.

LOCATION.--Lat 39°41'17", long 74°32'54", Burlington County, on right bank 900 ft (274 m) downstream from Godfrey Bridge, 2.2 mi (3.5 km) downstream from Little Hospitality Brook, and 1.2 mi (1.9 km) southwest of Jenkins.

DRAINAGE AREA.--84.1 mi² (217.8 km²).

PERIOD OF RECORD.--October 1974 to September 1975.

GAGE.--Water-stage recorder. Altitude of gage is 22 ft (6.7 m), from topographic map.

EXTREMES.--October 1974 to September 1975: Maximum discharge, 964 ft³/s (27.3 m³/s) Sept. 26 (gage height, 15.22 ft or 4.639 m); minimum, 48 ft³/s (1.36 m³/s) Sept. 11 (gage height, 10.85 ft or 3.307 m).

REMARKS.--Records excellent except those for period of no gage-height record, which are fair. Some regulation by cranberry bogs and small ponds.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	68	110	70	148	184	212	184	184	118	105	96	65
2	66	115	143	144	174	183	165	186	152	97	78	67
3	66	100	146	138	168	168	191	179	142	96	66	66
4	74	90	127	137	152	156	257	186	137	104	68	64
5	88	105	100	140	170	147	234	265	131	101	97	61
6	90	135	87	132	213	144	289	266	216	101	72	59
7	86	130	83	164	219	140	188	277	289	99	335	59
8	76	125	122	171	201	134	192	259	278	99	365	59
9	70	115	189	236	188	129	168	217	220	104	277	56
10	78	105	186	283	177	124	150	229	172	100	198	52
11	86	96	153	291	166	128	140	340	170	106	167	50
12	76	92	142	287	162	141	139	270	195	116	368	59
13	80	96	126	330	171	186	128	295	325	142	413	73
14	80	84	126	451	161	219	124	614	343	248	295	60
15	110	74	119	466	155	303	127	624	283	378	216	65
16	140	78	186	380	154	340	158	587	233	454	191	83
17	150	68	448	303	161	283	155	573	188	390	267	71
18	120	67	568	263	180	246	146	488	169	311	267	62
19	90	70	487	307	180	225	143	392	148	242	248	64
20	80	75	410	353	172	287	143	283	156	187	200	64
21	72	74	342	345	161	305	135	210	143	219	159	67
22	76	72	274	305	155	261	128	180	125	233	131	64
23	96	70	224	277	172	204	122	180	118	190	116	99
24	130	70	193	254	231	193	122	164	100	156	99	291
25	110	72	177	254	295	283	144	134	94	126	98	584
26	96	74	146	285	303	307	257	123	90	165	91	926
27	80	72	129	275	271	283	271	121	100	157	82	896
28	76	73	132	255	265	249	263	117	120	136	76	675
29	76	73	132	236	---	216	225	112	133	123	71	489
30	76	69	130	225	---	193	188	105	111	110	66	335
31	80	---	124	210	---	204	---	103	---	105	65	---
TOTAL	2734	2641	6015	8037	5339	6596	5186	8271	5191	5298	5330	5685
MEAN	88.2	88.0	194	259	191	213	173	267	173	171	172	190
MAX	159	135	548	466	303	340	271	624	343	454	413	926
MIN	66	67	70	132	152	124	122	103	90	94	65	50
CFSM	1.05	1.05	2.31	3.08	2.27	2.53	2.06	3.17	2.06	2.03	2.05	2.26
IN.	1.21	1.17	2.46	3.56	2.36	2.92	2.29	3.66	2.30	2.34	2.36	2.51

CAL YR 1974 TOTAL - MEAN - MAX - MIN - CFSM - IN -
WTR YR 1975 TOTAL 66320 MEAN 182 MAX 926 MIN 50 CFSM 2.16 IN 29.34

NOTE.--No gage-height record Oct. 1 to Nov. 27.

01410000 Oswego River at Harrisville, N. J.

LOCATION.--Lat 39°39'47", long 74°31'26", Burlington County, on right bank 50 ft (15 m) downstream from bridge on State Highway Spur 563 at Harrisville and 0.5 mi (0.8 km) upstream from confluence with West Branch Wading River.

DRAINAGE AREA.--64.0 mi² (165.8 km²).

PERIOD OF RECORD.--October 1930 to current year. Monthly discharge only for some periods, published in WSP 1302. Prior to October 1955, published as "East Branch Wading River at Harrisville".

GAGE.--Water-stage recorder. Concrete control since June 23, 1939. Datum of gage is 4.62 ft (1.408 m) above mean sea level.

AVERAGE DISCHARGE.--45 years, 87.7 ft³/s (2.484 m³/s), 18.61 in/yr (473 mm/yr).

EXTREMES.--Current year: Maximum discharge, 357 ft³/s (10.1 m³/s) Sept. 26 (gage height, 5.04 ft or 1.536 m); minimum, 31 ft³/s (0.88 m³/s) Dec. 1.
Period of record: Maximum discharge, 1,390 ft³/s (39.4 m³/s) Aug. 20, 1939 (gage height, 9.54 ft or 2.908 m, from high-water mark in recorder shelter), from rating curve extended above 640 ft³/s (18.1 m³/s); practically no flow part of Oct. 26, 1932, June 10, 1970, and May 29, 30, 1974, while pond was filling.

REMARKS.--Records excellent. Flow regulated by Harrisville Pond 200 ft (61 m) above station, capacity, about 30,000,000 gal (114,000 m³) and by ponds and cranberry bogs 5 to 10 mi (8 to 16 km) upstream.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	38	69	38	80	94	97	97	86	80	59	69	54
2	34	74	74	77	91	94	88	83	91	56	59	59
3	34	59	83	72	91	88	119	80	83	56	56	59
4	34	56	66	69	86	86	139	100	74	69	61	56
5	47	52	56	66	103	83	131	139	74	61	66	54
6	54	83	47	66	119	80	119	133	133	69	88	49
7	52	88	47	88	119	77	106	125	133	66	199	49
8	42	86	83	91	110	77	100	131	106	64	227	49
9	38	77	113	133	100	72	94	103	86	59	192	52
10	40	72	94	139	91	72	91	113	74	61	142	49
11	49	56	80	133	88	74	88	133	69	66	136	49
12	42	54	74	128	97	88	83	94	142	77	221	59
13	40	61	74	232	97	74	80	119	165	97	242	74
14	44	52	83	203	91	131	77	303	145	128	210	64
15	47	42	74	192	86	150	83	305	119	162	165	66
16	88	38	126	158	86	139	100	275	113	176	158	66
17	94	36	210	145	88	125	97	262	103	165	176	80
18	74	36	217	131	97	110	86	214	100	110	178	88
19	59	36	165	155	94	119	72	169	97	88	153	69
20	49	38	119	165	88	150	66	145	106	86	131	61
21	42	42	113	153	83	142	59	169	91	106	110	56
22	40	42	110	139	80	133	56	188	83	100	100	56
23	52	38	103	131	97	119	54	147	74	86	91	83
24	86	38	94	119	125	116	56	116	66	72	86	183
25	77	38	88	133	139	131	77	100	64	74	74	319
26	61	40	94	145	128	125	139	91	56	97	59	354
27	49	38	88	136	113	110	133	88	64	97	64	352
28	42	38	83	125	100	100	113	83	64	83	64	331
29	44	38	74	113	---	94	100	69	66	77	59	289
30	42	36	72	100	---	106	91	72	64	72	59	217
31	42	---	69	94	---	103	---	72	---	86	54	---
TOTAL	1576	1553	2911	3911	2781	3265	2794	4307	2785	2725	3749	3446
MEAN	50.8	51.8	93.9	126	99.3	105	93.1	139	92.8	87.9	121	115
MAX	94	88	217	232	139	150	139	305	165	176	242	354
MIN	34	36	38	66	80	72	54	69	56	56	54	49
CFSM	.79	.81	1.47	1.97	1.55	1.64	1.45	2.17	1.45	1.37	1.89	1.80
IN.	.92	.90	1.69	2.27	1.62	1.90	1.62	2.50	1.62	1.58	2.18	2.00

CAL YR 1974 TOTAL 29765 MEAN 81.5 MAX 226 MIN 32 CFSM 1.27 IN 17.29
WTR YR 1975 TOTAL 35803 MEAN 98.1 MAX 354 MIN 34 CFSM 1.53 IN 20.81

01410500 Absecon Creek at Absecon, N. J.

LOCATION.--Lat 39°25'45", long 74°31'16", Atlantic County, on right bank 30 ft (9.1 m) downstream from Doughty Pond Dam of Atlantic City Water Department, 1.0 mi (1.6 km) west of Absecon, and 3.4 mi (5.5 km) upstream from mouth.

DRAINAGE AREA.--16.6 mi^2 (43.0 km^2).

PERIOD OF RECORD.--December 1923 to April 1929 and June 1933 to December 1938 (monthly discharge only, published in WSP 1302; figures of daily discharge published in previous water-supply papers included diversions above station), May 1946 to current year.

GAGE.--Water-stage recorder and concrete control. Datum of gage is at mean sea level. Prior to May 1946, water-stage recorder and wooden control at same site at datum 0.16 ft (0.049 m) lower.

AVERAGE DISCHARGE.--38 years (1924-28, 1933-38, 1946-75), 27.3 ft^3/s (0.773 m), adjusted for diversion.

EXTREMES.--Current year: Maximum daily discharge, 100 ft^3/s (2.83 m^3/s) July 16; minimum daily, 4.3 ft^3/s (0.12 m^3/s) Nov. 30.
Period of record: Maximum daily discharge, 295 ft^3/s (8.35 m^3/s) Sept. 6, 1935; no flow several days in many years.

REMARKS.--Records good except those for period of no gage-height record, which are poor. Records represent flow at gage only. Diversion from Doughty Pond for municipal supply at Atlantic City (records given herein). Flow regulated by Doughty Pond, capacity, 245,000,000 gal (927,300 m^3), and by Kuehnle Reservoir, capacity, 250,000,000 gal (946,200 m^3), 1.5 mi (2.4 km) above station.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.2	6.6	8.5	10	15	20	16	10	11	7.0	6.4	4.5
2	7.2	7.2	39	6.0	16	18	16	22	14	5.8	6.0	11
3	9.1	6.6	16	4.7	17	17	35	20	11	5.4	5.8	4.7
4	7.2	6.0	15	6.6	9.7	14	46	29	11	5.4	5.6	4.7
5	7.2	6.0	4.7	9.1	22	9.1	31	50	10	7.0	5.4	4.7
6	7.2	8.5	4.7	6.6	28	11	21	35	20	5.5	10	4.7
7	7.2	8.5	6.0	16	24	14	18	25	45	5.2	15	4.7
8	7.2	14	18	12	15	26	19	20	30	5.6	30	4.7
9	7.2	4.7	27	32	20	12	15	18	20	7.0	18	4.7
10	6.6	4.7	15	22	14	6.0	15	15	16	6.5	10	4.7
11	6.6	4.7	10	20	15	12	18	14	14	6.3	7.0	4.7
12	6.6	4.7	11	20	20	19	17	14	12	7.8	6.2	4.7
13	6.6	5.3	11	31	23	36	18	14	21	7.0	15	6.0
14	6.6	4.7	17	41	16	47	15	15	31	9.0	10	9.1
15	6.6	7.2	15	27	13	62	22	15	20	20	8.0	7.9
16	8.5	5.3	27	19	15	36	35	20	12	100	6.0	6.0
17	22	4.7	44	18	17	27	26	25	10	70	5.2	6.0
18	20	4.7	27	20	19	22	20	18	8.0	40	70	6.0
19	14	4.7	16	30	20	23	21	15	7.8	26	35	6.0
20	15	5.3	14	36	13	39	23	14	9.0	18	18	6.6
21	9.7	11	13	28	16	20	18	13	8.0	15	13	6.6
22	6.0	16	13	21	13	18	12	20	6.2	18	10	6.0
23	6.6	4.7	9.7	18	19	24	16	30	6.0	24	8.0	6.0
24	6.0	4.7	9.7	17	27	20	18	23	6.0	16	9.0	8.5
25	6.0	9.7	15	22	34	26	27	19	6.4	12	10	14
26	7.2	13	7.9	24	27	27	52	16	6.1	11	13	22
27	6.6	4.7	7.2	18	18	17	36	12	6.1	11	9.0	18
28	6.6	5.3	9.7	14	16	13	24	11	6.0	10	6.5	14
29	6.6	6.0	8.5	15	---	13	22	11	7.5	9.0	5.6	9.7
30	6.6	4.3	8.5	17	---	23	20	10	8.5	10	6.0	8.5
31	6.6	---	18	11	---	22	---	10	---	7.0	6.8	---
TOTAL	260.3	203.5	466.1	592.0	521.7	693.1	692	593	399.6	508.3	389.5	229.4
MEAN	8.40	6.78	15.0	19.1	18.6	22.4	23.1	19.1	13.3	16.4	12.6	7.65
MAX	22	16	44	41	34	62	52	50	45	100	70	22
MIN	6.0	4.3	4.7	4.7	9.7	6.0	12	10	6.0	5.2	5.2	4.5
(†)	4.0	4.5	4.1	6.2	6.2	5.6	4.1	3.3	5.6	7.9	8.7	5.3

CAL YR 1974 TOTAL 4658.7 MEAN 12.8 MAX 73 MIN 4.3 † 5.5
WTR YR 1975 TOTAL 5548.5 MEAN 15.2 MAX 100 MIN 4.3 † 5.5

† Diversion, in cubic feet per second, above station from Doughty Pond for municipal supply by Atlantic City Water Company.

NOTE.--No gage-height record May 6 to Sept. 4.

01410787 Great Egg Harbor River tributary at Sicklerville, N. J.

LOCATION.--Lat 39°43'31", long 74°57'39", Camden County, on left bank on upstream wingwall of bridge on Blackwood-New Brooklyn Road, 0.75 mi (1.21 km) northeast of Sicklerville, and 0.77 mi (1.24 km) upstream from mouth.

DRAINAGE AREA.--1.64 mi² (4.25 km²).

PERIOD OF RECORD.--January 1972 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 121 ft (37 m), from topographic map.

EXTREMES.--Current year: Maximum discharge, 60 ft³/s (1.70 m³/s) July 13 (gage height, 4.12 ft or 1.256 m) from rating curve extended above 40 ft³/s (1.13 m³/s); minimum, 0.19 ft³/s (0.005 m³/s) Oct. 8 (gage height, 1.21 ft or 0.369 m).

Period of record: Maximum discharge, 60 ft³/s (1.70 m³/s) July 13, 1975 (gage height, 4.12 ft or 1.256 m) from rating curve extended above 40 ft³/s (1.13 m³/s); no flow Nov. 28 to Dec. 4. 1973.

REMARKS.--Records good except those below 0.30 ft³/s (0.008 m³/s), which are fair. Some regulation by Winslow Crossing Water Department above station. Records of water quality for the current year are published in Section 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.36	.48	1.1	1.4	1.5	1.7	2.8	2.3	2.3	.51	.73	.45
2	.32	.44	4.3	1.1	1.5	1.7	2.2	2.5	1.8	.45	.73	.60
3	.32	.44	1.3	.92	1.4	1.7	4.6	2.2	1.7	.51	.68	.42
4	.29	.50	.48	.92	1.3	1.4	3.2	6.0	1.1	.55	1.3	.42
5	.25	.80	.44	.80	3.0	1.3	2.5	4.8	2.3	.45	1.7	.42
6	.25	1.5	.40	1.1	3.4	1.2	2.2	3.3	10	.64	3.6	.42
7	1.2	.53	.48	2.3	2.6	1.2	2.4	3.1	3.1	2.8	2.5	.42
8	.22	.40	5.8	1.2	2.8	1.4	1.8	2.6	2.0	1.5	1.2	1.4
9	.48	.40	2.8	6.1	1.8	1.1	1.8	2.2	1.8	.60	.84	.90
10	.32	.40	1.7	2.4	1.8	1.4	1.6	2.0	1.3	.73	.73	.30
11	.29	.48	.86	3.2	1.3	1.2	1.6	1.8	1.1	1.0	1.9	.30
12	.29	.86	.80	2.3	1.7	2.2	1.5	1.9	4.8	.60	1.5	1.4
13	.29	1.2	.74	7.3	1.6	2.1	1.5	3.6	3.9	32	.73	.97
14	.48	.48	.86	4.6	1.3	5.1	1.5	2.5	2.2	16	.78	.45
15	.40	.44	.68	2.4	1.3	3.4	2.2	2.0	1.5	27	.64	.55
16	7.1	.40	16	1.9	1.4	2.3	2.4	6.6	2.4	6.6	18	.37
17	1.1	.48	6.3	1.6	2.2	1.9	1.9	3.5	1.7	3.5	4.6	.37
18	.58	.40	2.6	4.6	2.6	1.6	1.8	2.6	.84	2.6	2.4	.37
19	.48	.63	2.0	4.8	2.0	17	1.8	2.6	.84	2.2	1.8	.60
20	.44	.48	1.7	4.9	1.7	13	1.7	1.8	.78	1.9	1.1	.45
21	.58	.53	1.5	2.9	1.5	4.5	1.4	2.3	.60	6.7	.97	.40
22	.40	.36	1.2	2.4	1.3	3.4	1.4	5.1	.60	2.5	.84	.64
23	.44	.36	1.2	2.1	4.0	3.1	1.3	2.4	.84	1.8	.73	9.0
24	.48	.36	1.0	2.0	6.3	7.3	1.8	2.0	1.1	1.5	.78	19
25	.44	.68	1.1	5.6	5.3	6.9	11	1.5	1.4	1.4	.90	17
26	.40	.44	1.0	5.1	2.8	3.8	14	1.5	1.0	1.3	.64	13
27	.40	.32	1.0	2.9	2.2	2.8	4.5	1.8	.68	1.2	.60	7.5
28	.68	.36	1.0	2.1	1.9	2.6	3.5	1.1	.64	1.3	.55	3.6
29	.48	.32	.92	1.9	---	2.4	3.9	1.1	.64	.90	.51	2.7
30	.44	.32	.86	1.7	---	4.1	3.0	1.6	.60	.84	.51	2.2
31	.48	---	1.0	1.7	---	3.9	---	1.4	---	.73	.45	---
TOTAL	20.68	15.79	63.12	86.24	63.5	108.7	88.8	81.7	55.56	122.31	54.94	86.62
MEAN	.67	.53	2.04	2.78	2.27	3.51	2.96	2.64	1.85	3.95	1.77	2.89
MAX	7.1	1.5	16	7.3	6.3	17	14	6.6	10	32	18	19
MIN	.22	.32	.40	.80	1.3	1.1	1.3	1.1	.60	.45	.45	.30
CFSM	.41	.32	1.24	1.70	1.38	2.14	1.80	1.61	1.13	2.41	1.08	1.76
IN.	.47	.36	1.43	1.95	1.44	2.46	2.01	1.85	1.26	2.77	1.25	1.96

CAL YR 1974	TOTAL 540.42	MEAN 1.48	MAX 16	MIN .22	CFSM .90	IN 12.25
WTR YR 1975	TOTAL 847.96	MEAN 2.32	MAX 32	MIN .22	CFSM 1.41	IN 19.22

PEAK DISCHARGE (BASE, 75 CFS)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
12-16	1345	3.61	49	7-15	0945	3.69	51
3-19	1830	3.84	55	8-16	0900	3.91	56
4-25	2145	3.38	42	9-24	1445	3.13	35
7-13	1015	4.12	60				

01410810 Fourmile Branch at New Brooklyn, N. J.

LOCATION.--Lat 39°41'47", long 74°56'25", Camden County, on left bank 70 ft (21 m) upstream from bridge on Malaga Road, 0.3 mi (0.5 km) northeast of New Brooklyn and 0.3 mi (0.5 km) upstream from mouth.

DRAINAGE AREA.--7.74 mi² (20.05 km²).

PERIOD OF RECORD.--October 1972 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 102 ft (31.1 m), from topographic map.

EXTREMES.--Current year: Maximum discharge, 80 ft³/s (2.27 m³/s) Sept. 25 (gage height, 4.24 ft or 1.292 m); minimum, 5.4 ft³/s (0.15 m³/s) Oct. 9, 10, 11 (gage height, 1.93 ft or 0.588 m).

Period of record: Maximum discharge, 128 ft³/s (3.62 m³/s) Dec. 22, 1973 (gage height, 4.24 ft or 1.292 m); maximum gage height, 4.41 ft (1.344 m) Feb. 3, 1973; minimum discharge, 4.3 ft³/s (0.12 m³/s) Sept. 3, 1973 (gage height, 1.96 ft or 0.597 m).

REMARKS.--Records fair. Records of water quality for the current year are published in Section 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.3	6.8	7.1	10	9.6	12	15	14	10	7.0	5.8	7.5
2	6.2	6.8	19	11	9.5	11	13	14	13	6.6	5.8	7.7
3	5.9	6.8	16	9.3	9.2	10	15	15	9.8	6.8	6.0	7.5
4	5.9	6.8	11	8.7	8.9	9.2	28	19	8.9	7.2	6.7	7.2
5	5.8	7.0	9.0	8.3	10	8.8	16	29	9.2	6.6	9.0	7.2
6	5.7	10	8.3	8.0	11	8.6	14	22	30	6.4	10	8.4
7	5.7	8.9	7.9	13	12	8.4	13	18	33	6.8	24	8.3
8	5.5	7.9	18	12	12	8.2	12	16	17	7.5	15	7.9
9	5.4	7.5	29	21	11	8.2	12	14	12	6.8	11	7.6
10	5.4	7.2	17	23	11	8.1	11	14	9.6	6.7	6.0	7.0
11	5.4	7.0	11	16	10	8.3	11	12	8.9	8.3	9.3	7.0
12	5.5	7.3	9.5	16	9.6	9.4	11	10	15	7.7	11	7.6
13	5.5	12	9.6	19	9.2	11	11	14	26	24	9.3	12
14	5.7	10	11	31	8.8	13	10	14	18	62	10	8.7
15	5.7	8.7	9.5	20	8.6	15	11	12	11	67	9.2	7.9
16	16	7.9	22	13	8.8	15	16	21	9.8	59	28	7.6
17	25	7.5	45	11	9.0	13	15	26	9.0	34	49	7.6
18	15	7.2	38	13	9.8	11	13	17	8.6	19	34	7.5
19	9.3	7.2	19	25	11	20	12	14	8.2	15	16	7.9
20	8.3	7.2	14	25	11	48	12	12	8.7	13	12	8.0
21	7.6	7.7	12	20	10	43	11	10	7.9	24	10	7.9
22	7.6	7.3	11	15	9.5	26	10	30	7.6	22	10	7.7
23	7.3	7.1	10	13	12	20	10	31	7.3	13	10	12
24	7.1	7.0	9.5	13	16	20	10	21	7.2	10	9.8	42
25	7.1	7.0	9.3	18	19	31	10	17	8.3	9.5	9.3	74
26	7.0	7.1	9.2	27	18	26	40	14	7.9	10	8.6	61
27	6.8	7.0	8.9	20	16	17	41	12	8.2	9.0	8.0	53
28	6.8	6.8	8.6	14	14	15	23	10	7.7	7.9	7.7	42
29	6.8	6.7	8.3	12	---	14	17	9.3	7.6	7.0	7.6	26
30	6.8	6.6	8.2	10	---	16	15	9.0	7.3	6.4	7.7	18
31	6.8	---	8.0	10	---	19	---	10	---	6.2	7.6	---
TOTAL	236.9	228.0	433.9	485.3	314.5	503.2	458	500.3	352.7	502.4	383.4	501.7
MEAN	7.64	7.60	14.0	15.7	11.2	16.2	15.3	16.1	11.8	16.2	12.4	16.7
MAX	25	12	45	31	19	48	41	31	33	67	49	74
MIN	5.4	6.6	7.1	8.0	8.6	8.1	10	9.0	7.2	6.2	5.8	7.0
CFSM	.99	.98	1.81	2.03	1.45	2.09	1.98	2.08	1.52	2.09	1.60	2.16
IN.	1.14	1.10	2.09	2.33	1.51	2.42	2.20	2.40	1.69	2.41	1.84	2.41

CAL YR 1974 TOTAL 3836.0 MEAN 10.5 MAX 55 MIN 4.9 CFSM 1.36 IN 18.43
WTR YR 1975 TOTAL 4900.3 MEAN 13.4 MAX 74 MIN 5.4 CFSM 1.73 IN 23.55

PEAK DISCHARGE (BASE, 60 CFS)

NOTE.--No gage-height record Feb. 4 to Mar. 17.

DATE	TIME	G.H.	DISCHARGE
7-15	0930	4.21	79
9-25	1430	4.24	80

01410820 Great Egg Harbor River near Blue Anchor, N. J.

LOCATION.--Lat 39°40'09", long 74°54'49", Camden County, downstream side of bridge on Broad Lane Road, 2.1 mi (3.4 km) downstream from confluence of Fourmile Branch and 1.9 mi (3.1 km) southwest of Blue Anchor.

DRAINAGE AREA.--37.3 mi² (96.6 km²).

PERIOD OF RECORD.--June 1972 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 92 ft (28.0 m), from topographic map.

EXTREMES.--Current year: Maximum discharge, 754 ft³/s (21.4 m³/s) July 15 (gage height, 6.79 ft or 2.070 m); minimum daily, 27 ft³/s (0.76 m³/s) Oct. 7-14.
Period of record: Maximum discharge 754 ft³/s (21.4 m³/s) July 15, 1975 (gage height, 6.79 ft or 2.070 m); minimum, 19 ft³/s (0.54 m³/s) Sept. 1, 2, 1972 (gage height, 2.87 ft or 0.875 m).

REMARKS.--Records good except those for period of no gage-height record, which are fair. Records of water quality for the current year are published in Section 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	33	31	30	51	61	68	76	70	51	41	44	40
2	32	30	54	57	58	61	69	67	58	37	43	40
3	30	38	62	55	56	57	70	65	58	36	42	39
4	29	31	59	53	53	54	80	69	55	38	42	38
5	28	32	54	51	58	52	80	95	58	36	54	37
6	28	41	47	48	71	50	75	96	101	35	41	38
7	27	41	43	54	79	49	66	89	128	38	106	39
8	27	39	55	63	78	50	61	78	109	45	86	39
9	27	36	91	69	71	49	58	68	87	47	79	39
10	27	34	98	99	63	47	55	63	64	46	64	36
11	27	33	82	95	58	47	54	58	53	49	54	35
12	27	34	72	91	57	51	53	53	61	49	58	38
13	27	46	61	95	57	64	52	58	93	71	55	49
14	27	46	58	137	53	72	51	64	92	252	59	46
15	30	44	55	123	51	91	52	62	80	488	58	45
16	40	41	69	101	51	86	65	75	65	535	123	42
17	54	38	225	79	55	76	65	94	55	322	208	40
18	64	36	212	71	66	65	61	88	49	198	186	39
19	70	34	170	92	71	70	58	78	46	124	123	40
20	62	34	120	112	66	199	55	65	47	92	87	41
21	54	36	92	111	61	225	53	57	47	105	67	41
22	48	35	76	94	55	187	50	108	44	105	58	40
23	45	33	63	83	62	135	48	136	41	84	54	55
24	40	32	60	74	89	104	48	135	39	73	51	191
25	37	32	57	76	122	126	60	108	42	64	50	440
26	36	33	55	96	115	123	155	81	45	61	47	500
27	35	31	53	99	94	98	194	64	46	57	45	410
28	34	31	52	89	79	86	160	56	45	53	43	209
29	33	30	51	79	---	74	109	50	44	50	42	190
30	32	29	49	70	---	75	83	47	43	47	42	127
31	31	---	48	63	---	81	---	49	---	45	41	---
TOTAL	1141	1053	2365	2530	1910	2672	2217	2346	1838	3315	2172	3083
MEAN	36.8	35.1	76.3	81.6	68.2	86.2	73.9	75.7	61.3	107	70.1	103
MAX	70	46	225	137	122	225	194	136	128	535	208	500
MIN	27	29	30	48	51	47	48	47	39	35	41	35
CFSM	.99	.94	2.05	2.19	1.83	2.31	1.98	2.03	1.64	2.87	1.88	2.76
IN.	1.14	1.05	2.36	2.52	1.90	2.66	2.21	2.34	1.83	3.31	2.17	3.07

CAL YR 1974 TOTAL 19958 MEAN 54.7 MAX 225 MIN 21 CFSM 1.47 IN 19.90
WTR YR 1975 TOTAL 26642 MEAN 73.0 MAX 535 MIN 27 CFSM 1.96 IN 26.57

PEAK DISCHARGE (BASE, 250 CFS)

DATE	TIME	G.H.	DISCHARGE
7-15	1845	6.79	754
9-25	2015	6.44	550

NOTE.--No gage-height record Oct. 1 to Nov. 4.

GREAT EGG HARBOR RIVER BASIN

01411000 Great Egg Harbor River at Folsom, N. J.

LOCATION.--Lat 39°35'42", long 74°51'06", Atlantic County, on left bank 25 ft (7.6 m) upstream from bridge on State Highway 54, 1.0 mi (1.6 km) south of Folsom, and 2.0 mi (3.2 km) upstream from Pennypot Stream.

DRAINAGE AREA.--56.3 mi² (145.8 km²).

PERIOD OF RECORD.--September 1925 to current year. Prior to October 1947, published as "Great Egg River at Folsom".

GAGE.--Water-stage recorder. Concrete control since Nov. 26, 1934. Datum of gage is 53.32 ft (16.252 m) above mean sea level. Prior to Mar. 6, 1941, water-stage recorder at site 100 ft (30 m) downstream at same datum. Mar. 6 to Oct. 5, 1941, nonrecording gage at site 145 ft (44 m) downstream at datum 0.25 ft (0.076 m) higher.

AVERAGE DISCHARGE.--50 years, 86.4 ft³/s (2.447 m³/s) 20.84 in/yr (529 mm/yr).

EXTREMES.--Current year: Maximum discharge, 581 ft³/s (16.5 m³/s) Sept. 27 (gage height, 6.56 ft or 1.999 m, from peak-stage indicator); minimum, 41 ft³/s (1.161 m³/s) Oct. 9, 10, 15, 16 (gage height, 3.65 ft or 1.113 m).

Period of record: Maximum discharge, 1,440 ft³/s (40.8 m³/s) Sept. 3, 1940 (gage height, 9.09 ft or 2.771 m); minimum, 15 ft³/s (0.42 m³/s) Sept. 6, 1957 Aug. 28-30, 1966; minimum gage height, 3.42 ft (1.042 m) Aug. 28-30, 1966.

REMARKS.--Records good. Records of water quality for the current year are published in Section 2 of this report.

REVISIONS (WATER YEARS).--WSP 781: Drainage area. WSP 1432: 1928(M), 1933.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	51	48	49	73	96	123	129	142	90	67	64	55
2	49	48	60	78	98	106	123	119	96	61	62	54
3	47	48	73	81	85	97	120	108	89	58	60	54
4	45	48	82	80	82	86	124	108	88	63	58	53
5	44	48	84	77	82	82	125	123	84	61	72	51
6	43	52	79	71	90	78	126	147	98	58	90	51
7	42	58	71	73	106	76	117	156	137	58	103	52
8	42	59	72	82	113	75	107	144	180	60	140	52
9	42	56	80	101	111	75	98	128	162	67	130	52
10	42	54	116	121	103	73	93	113	136	69	116	52
11	42	52	129	145	97	72	87	102	100	73	98	52
12	42	52	114	140	88	74	85	93	91	76	82	54
13	42	57	101	144	86	82	83	89	109	81	84	59
14	42	64	91	170	83	98	81	95	141	119	84	63
15	42	65	81	187	79	118	80	99	144	317	83	60
16	50	64	93	171	77	134	86	106	126	510	93	57
17	75	60	175	144	77	133	95	124	107	499	145	55
18	92	57	275	125	82	117	96	148	88	352	251	53
19	103	54	258	123	88	111	94	143	79	236	228	52
20	97	53	216	147	98	149	89	127	77	175	175	52
21	92	54	174	167	96	246	86	110	75	150	134	52
22	79	56	142	159	92	270	81	109	72	146	103	52
23	67	53	118	143	86	244	77	154	67	149	84	64
24	61	53	108	127	101	214	76	192	63	127	76	117
25	58	51	95	117	144	209	81	187	62	108	73	248
26	56	51	86	122	171	209	113	165	65	95	69	465
27	54	51	83	136	167	195	197	135	68	88	64	565
28	53	51	80	143	144	168	243	108	68	82	60	539
29	51	50	78	131	---	144	219	90	68	76	57	414
30	50	49	75	118	---	130	177	81	71	70	56	265
31	49	---	73	106	---	126	---	77	---	67	55	---
TOTAL	1744	1614	3411	3802	2816	4114	3386	3822	2889	4218	3065	3864
MEAN	56.3	53.8	110	123	101	133	113	123	96.3	136	98.9	129
MAX	103	65	275	187	171	270	243	192	180	510	251	565
MIN	42	48	49	71	77	72	76	77	62	58	55	51
CFSM	1.00	.96	1.95	2.18	1.79	2.36	2.01	2.18	1.71	2.42	1.76	2.29
IN.	1.15	1.07	2.25	2.51	1.86	2.72	2.24	2.53	1.91	2.79	2.03	2.55

CAL YR 1974 TOTAL 31477 MEAN 86.2 MAX 275 MIN 36 CFSM 1.53 IN 20.80
WTR YR 1975 TOTAL 38743 MEAN 106 MAX 565 MIN 42 CFSM 1.88 IN 25.60

NOTE.--No gage-height record Sept. 26-30.

01411300 Tuckahoe River at Head of River, N. J.

LOCATION.--Lat 39°18'25", long 74°49'15", Cape May County, on right bank at highway bridge on State Route 49, 0.2 mi (0.3 km) upstream from McNeals Branch, 0.4 mi (0.6 km) southeast of Head of River, and 3.7 mi (6.0 km) west of Tuckahoe.

DRAINAGE AREA.--30.8 mi² (79.8 km²).

PERIOD OF RECORD.--December 1969 to current year.

AVERAGE DISCHARGE.--5 years, 48.3 ft³/s (1.368 m³/s), 21.30 in/yr (541 mm/yr).

GAGE.--Water-stage recorder and wooden control. Datum of gage is at mean sea level.

EXTREMES.--Current year: Maximum discharge, 193 ft³/s (5.47 m³/s) Sept. 26 (elevation, 4.74 ft or 1.445 m); minimum daily discharge, 14 ft³/s (0.40 m³/s) Sept. 10, 11.

Period of record: Maximum discharge, 315 ft³/s (8.92 m³/s) Aug. 28, 1971 (elevation, 5.83 ft or 1.777 m); minimum daily, 9.7 ft³/s (0.27 m³/s) Sept. 13, 1973.

REMARKS.--Records fair except those from Oct. 12 to Jan. 22 and May 23 to Sept. 23, which are poor. Occasional regulation by ponds above station. Records of water quality for the current year are published in Section 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	19	18	29	33	52	61	64	57	50	35	27	17
2	18	18	63	32	51	57	59	57	61	30	26	18
3	18	18	39	30	48	53	70	57	55	29	24	17
4	18	18	29	29	46	50	97	69	67	30	24	16
5	18	18	23	28	61	48	86	117	58	29	25	15
6	18	18	21	27	78	47	77	102	73	38	30	15
7	17	18	20	40	75	46	70	84	72	60	56	15
8	17	18	38	41	67	46	65	73	60	50	50	15
9	17	17	56	59	61	43	61	64	53	38	36	15
10	18	17	46	68	55	43	58	58	67	36	29	14
11	15	17	35	62	51	46	56	53	47	43	27	14
12	15	17	31	61	57	55	54	52	56	59	27	16
13	15	22	29	73	66	78	53	55	100	70	24	19
14	15	20	41	101	61	97	51	62	100	94	24	19
15	15	19	43	87	56	139	57	60	80	108	23	17
16	32	18	59	71	54	111	81	73	44	93	22	16
17	46	18	80	62	58	89	80	92	71	73	22	17
18	36	18	71	61	63	78	69	81	44	59	21	16
19	26	18	57	79	61	75	62	72	54	48	19	17
20	22	18	51	89	56	98	57	65	94	41	21	17
21	20	19	46	88	51	95	51	60	97	52	22	17
22	20	19	43	78	48	83	46	71	70	55	21	16
23	19	18	39	70	56	78	44	82	56	43	20	24
24	19	18	37	65	84	73	43	74	46	35	19	64
25	19	17	36	70	97	80	58	68	41	35	20	149
26	19	19	35	78	87	77	97	64	39	50	19	177
27	19	18	33	71	74	69	95	58	39	62	18	129
28	19	17	31	64	66	63	79	53	38	46	18	102
29	19	17	31	59	---	60	69	49	36	38	17	80
30	18	17	30	54	---	65	62	45	36	33	17	61
31	18	---	29	51	---	68	---	44	---	29	17	---
TOTAL	624	542	1251	1881	1740	2171	1971	2071	1801	1549	765	1144
MEAN	20.1	18.1	40.4	60.7	62.1	70.0	65.7	66.8	60.0	50.0	24.7	38.1
MAX	46	22	80	101	97	139	97	117	100	108	56	177
MIN	15	17	20	27	46	43	43	44	36	29	17	14
CFSM	.65	.59	1.31	1.97	2.02	2.27	2.13	2.17	1.95	1.62	.80	1.24
IN.	.75	.65	1.51	2.27	2.10	2.62	2.38	2.50	2.18	1.87	.92	1.38

CAL YR 1974 TOTAL 11646 MEAN 31.9 MAX 98 MIN 12 CFSM 1.04 IN 14.07
WTR YR 1975 TOTAL 17510 MEAN 48.0 MAX 177 MIN 14 CFSM 1.56 IN 21.15

01411500 Maurice River at Norma, N. J.

LOCATION.--Lat 39°29'42", long 75°04'38", Salem County, on right bank just upstream from Almond Road Bridge at Norma, 0.8 mi (1.3 km) downstream from Blackwater Branch.

DRAINAGE AREA.--113 mi² (293 km²).

PERIOD OF RECORD.--July 1932 to current year. Monthly discharge only for December 1933, published in WSP 1302.

GAGE.--Water-stage recorder. Concrete control since Dec. 27, 1937. Datum of gage is 46.94 ft (14.307 m) above mean sea level.

AVERAGE DISCHARGE.--43 years, 168 ft³/s (4.758 m³/s) 20.19 in/yr (513 mm/yr).

EXTREMES.--Current year: Maximum discharge, 1,360 ft³/s (38.5 m³/s) July 15 (gage height, 4.92 ft or 1.500 m); minimum, 57 ft³/s (1.61 m³/s) Sept. 21 (gage height, 2.49 ft or 0.759 m).
Period of record: Maximum discharge, 7,360 ft³/s (208 m³/s) Sept. 2, 1940 (gage height, 8.72 ft or 2.658 m) from rating curve extended above 3,000 ft³/s (85 m³/s); minimum daily, 23 ft³/s (0.65 m³/s) Sept. 8, 1964, July 2, Sept. 7, 11-13, 1966.

REMARKS.--Records good. Occasional regulation by ponds above station. Records of water quality for the current year are published in Section 2 of this report.

REVISIONS (WATER YEARS).--WSP 1382: 1933.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	91	72	80	140	207	248	297	297	181	156	150	113
2	93	74	137	148	195	235	283	274	207	156	142	113
3	91	78	150	148	188	214	283	252	218	148	142	116
4	87	80	150	148	178	195	292	244	226	148	140	113
5	85	80	145	142	188	184	279	270	222	145	140	110
6	80	87	134	140	207	178	261	261	261	140	148	103
7	78	87	126	159	211	175	248	252	297	140	172	70
8	76	87	148	199	211	172	239	244	310	136	184	98
9	74	87	226	192	211	165	226	226	310	136	188	103
10	72	87	195	203	203	162	218	199	278	142	178	98
11	78	87	172	207	192	162	211	178	226	181	165	96
12	69	87	162	214	188	169	207	172	226	175	153	98
13	67	100	153	235	192	195	199	178	278	222	140	123
14	67	103	148	279	186	211	195	181	279	475	150	129
15	67	103	137	270	175	244	199	181	283	1110	150	126
16	103	100	159	256	172	248	214	211	261	1200	184	121
17	140	100	270	239	169	239	214	226	231	1070	226	113
18	162	98	279	226	175	226	214	226	199	796	342	121
19	169	91	288	248	181	252	211	231	172	495	470	165
20	150	87	283	261	181	396	207	231	207	387	369	129
21	145	87	261	265	178	459	199	222	199	337	288	69
22	129	87	235	261	175	445	192	337	169	324	231	76
23	116	82	267	252	184	440	181	425	123	310	188	131
24	103	82	186	239	222	430	178	518	137	310	129	366
25	98	80	175	235	252	455	195	506	148	292	145	495
26	93	82	165	244	261	415	279	480	150	252	145	810
27	91	82	165	244	261	382	306	324	148	211	137	880
28	89	80	162	239	261	355	315	274	142	207	129	680
29	87	80	150	235	---	333	328	235	142	192	123	490
30	82	80	145	226	---	319	324	211	150	178	116	360
31	67	---	134	214	---	315	---	195	---	148	113	---
TOTAL	2991	2597	5525	6668	5602	8609	7194	8181	6356	10315	5685	6585
MEAN	96.5	86.6	178	215	200	278	240	264	212	333	183	220
MAX	169	103	288	279	261	455	328	518	310	1200	470	880
MIN	67	72	80	140	169	162	178	172	123	134	113	69
CFSM	.85	.77	1.58	1.90	1.77	2.46	2.12	2.34	1.88	2.95	1.62	1.95
IN.	.98	.85	1.82	2.20	1.84	2.83	2.37	2.69	2.09	3.40	1.87	2.17

CAL YR 1974 TOTAL 53187 MEAN 146 MAX 317 MIN 50 CFSM 1.29 IN 17.51
WTR YR 1975 TOTAL 76308 MEAN 209 MAX 1200 MIN 67 CFSM 1.85 IN 25.12

PEAK DISCHARGE (BASE, 380 CFS)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
3-21	0100	3.61	455	7-15	1600	4.92	1,360
3-25	0900	3.63	465	8-19	0200	3.72	512
5-24	1600	3.76	542	9-27	0700	4.37	929

01434000 Delaware River at Port Jervis, N. Y.

LOCATION.--Lat 41°22'14", long 74°41'52", Pike County, Pa., on right bank 250 ft (76 m) downstream from bridge on U.S. Highways 6 and 209 at Port Jervis, 1.2 mi (1.9 km) upstream from Neversink River, and 6.5 mi (10.5 km) downstream from Mongaup River.

DRAINAGE AREA.--3,076 mi² (7,967 km²).

PERIOD OF RECORD.--October 1904 to current year.

GAGE.--Water-stage recorder. Datum of gage is 415.35 ft (126.599 m) above mean sea level. October 1904 to August 13, 1928, nonrecording gage at bridge 250 ft (76 m) upstream at present datum, operated by U. S. Weather Bureau prior to June 20, 1914.

EXTREMES.--Current year: Maximum discharge, 55,800 ft³/s (1,580 m³/s) Feb. 25 (gage height, 11.76 ft or 3.584 m), minimum, 938 ft³/s (26.6 m³/s) July 9 (gage height, 1.89 ft or 0.576 m); minimum daily, 1,370 ft³/s (38.8 m³/s) Nov. 5, July 20.

Period of record: Maximum discharge, 233,000 ft³/s (6,600 m³/s) Aug. 19, 1955 (gage height, 23.91 ft or 7.288 m, from floodmarks in gage house), from rating curve extended above 89,000 ft³/s (2,520 m³/s) on basis of slope-area measurement of peak flow; minimum observed, 175 ft³/s (4.96 m³/s) Sept. 23, 1908 (gage height, 0.6 ft or 0.18 m).

Maximum discharge previously known, 205,000 ft³/s (5,810 m³/s) Oct. 10, 1903 (gage height, 23.1 ft or 7.04 m), reported by U. S. Weather Bureau, from rating curve extended above 70,000 ft³/s (1,980 m³/s) by velocity-area studies; maximum stage known, 25.5 ft (7.77 m) Mar. 8, 1904 (ice jam).

REMARKS.--Records good. Flow regulated by Lake Wallenpaupack and by Toronto, Cliff Lake, and Swinging Bridge Reservoirs (see Delaware River Basin, reservoirs in) and smaller reservoirs. Large diurnal fluctuations at medium and low flows caused by powerplants on tributary streams. Subsequent to September 1954, entire flow from 371 mi² (961 km²) of drainage area controlled by Pepacton Reservoir, and subsequent to October 1963, entire flow from 454 mi² (1,176 km²) of drainage area controlled by Cannonsville Reservoir (see Delaware River Basin, reservoirs in). Part of flow from these reservoirs diverted for New York City municipal supply. Remainder of flow (except for conservation releases and spill) impounded for release during periods of low flow in the lower Delaware River basin, as directed by the Delaware River Master. Records of water quality for the current year are published in Section 2 of WRD-NY 1975.

REVISIONS (WATER YEARS).--WSP 756: Drainage area. WSP 1031: 1905-36. WRD-NY 1971: 1970.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9130	1740	3750	3720	8800	15400	9700	3340	3100	2800	2040	4490
2	6870	1660	4140	3400	7610	12000	8810	3530	3140	2290	1510	3160
3	5600	1620	5190	3600	7300	10400	10300	3910	3300	2150	1670	2960
4	4760	1500	4700	3800	6950	9110	23700	3930	3430	1540	1490	2680
5	4010	1370	3740	2380	6190	7800	20700	8100	3880	1480	1930	2350
6	3540	2570	3440	2810	5950	7150	15700	8100	8620	1430	1810	1900
7	3340	3190	3070	3320	6310	6650	13400	12300	15100	1720	3010	1390
8	2900	2990	8810	3340	4890	5990	11700	14400	11200	1630	2850	1600
9	2800	2580	40800	4790	4250	5150	9800	11800	8360	1580	2300	2330
10	2630	2300	26000	10400	4320	4960	8670	9820	7680	1850	1490	2130
11	3300	2580	17200	10100	4770	5460	8050	8200	7190	2050	1700	2130
12	3360	7600	13400	18800	4470	5190	7060	7680	6960	1900	1780	1990
13	2820	4630	11300	10100	4540	5310	6560	11400	13700	1790	1620	1640
14	2210	10800	9430	14600	4370	5420	6390	13800	12300	2270	1590	2250
15	2380	8370	7970	11700	3790	5020	5910	13100	9400	2820	1540	2100
16	1990	7320	7610	9750	3400	4170	5490	12400	8440	2310	1790	2110
17	3030	6240	8530	9770	3330	4110	5040	11500	7850	1670	2010	1830
18	3870	5810	8040	8130	4270	4710	4750	9400	6750	1980	2000	1720
19	3010	5220	6760	6230	4560	5110	4460	9020	5770	1720	1920	1760
20	2120	4900	6370	7020	4260	19200	4410	8510	5290	1370	1840	1650
21	2240	6920	5540	6450	3940	27100	5170	7220	3930	3620	1700	1900
22	2780	6850	6540	5050	3100	18600	4880	4460	3180	6600	1910	2550
23	2510	6560	4990	4990	3570	19500	4490	7000	2570	3900	1920	2940
24	2140	5710	4970	4760	19200	14400	4300	5970	3110	3040	2030	4200
25	2110	5850	4570	4630	52300	14300	5100	5350	2190	3870	3440	13800
26	1730	5840	4900	7710	40800	15700	5000	4390	2230	4200	3090	24200
27	1810	5190	5000	9870	27600	14200	4380	4150	2070	3420	2750	17700
28	1910	4490	4280	8850	19700	11400	4230	3800	1810	3400	2100	14100
29	2010	4350	3610	7650	---	9540	4080	3070	1960	3040	1780	11000
30	1810	3810	3770	10400	---	9250	3740	2840	2210	2290	2520	8820
31	1770	---	4340	10400	---	10200	---	2900	---	2210	8410	---
TOTAL	96850	139480	250650	234120	274220	310500	233760	237590	176740	77840	85030	145500
MEAN	3124	4649	8085	7552	9794	10020	7792	7664	5891	2511	2743	4850
MAX	9130	10800	40800	18800	52300	27100	23700	14400	15100	6600	8410	24200
MIN	1730	1370	3070	2380	3100	4110	3740	2840	1810	1370	1490	1390

CAL YR 1974 TOTAL 2091430 MEAN 5730 MAX 40800 MIN 1070
WTR YR 1975 TOTAL 2246780 MEAN 6156 MAX 52300 MIN 1370

01437500 Neversink River at Godeffroy, N. Y.

LOCATION.--Lat 41°26'28", long 74°36'07", Orange County, on right bank just upstream from highway bridge on Graham Road, 0.5 mi (0.8 km) downstream from Basher Kill, 0.8 mi (1.3 km) southeast of Godeffroy, 1.7 mi (2.7 km) south of Cuddebackville, and 8.5 mi (13.7 km) upstream from mouth.

DRAINAGE AREA.--302 mi² (782 km²).

PERIOD OF RECORD.--August to October 1903, August 1909 to April 1914 (gage heights and discharge measurements, also twice-daily figures of discharge for January 1911 to December 1912, which do not represent mean daily discharges because of diurnal fluctuation) and July 1937 to current year. August to October 1903, published as Nevesink River at Godeffroy, N. Y.

GAGE.--Water-stage recorder. Datum of gage is 459.66 ft (140.104 m) above mean sea level (levels by Corps of Engineers). Prior to Apr. 30, 1914, nonrecording gages at same site (Aug. to Oct. 1903 at datum 0.98 ft (0.299 m) higher).

EXTREMES.--Current year: Maximum discharge, 4,210 ft³/s (119 m³/s) Dec. 8 (gage height, 6.82 ft or 2.079 m); minimum, 103 ft³/s (2.92 m³/s) Sept. 18, 19 (gage height, 2.94 ft or 0.896 m).
Period of record: Maximum discharge, 33,000 ft³/s (935 m³/s) Aug. 19, 1955 (gage height, 12.49 ft or 3.807 m), from rating curve extended above 11,000 ft³/s (312 m³/s) on basis of slope-area measurement of peak flow; practically no flow several times in July 1911.

REMARKS.--Records fair. Prior to 1949, diurnal fluctuation at low and medium flow caused by powerplant at Cuddebackville. Subsequent to June , 1953, entire flow from 91.8 mi² (238 km²) of drainage area controlled by Neversink Reservoir (see Delaware River Basin, reservoirs in). Part of flow diverted for New York City municipal supply. Remainder of flow (except for conservation releases and spill), impounded for release during periods of low flow in the lower Delaware River basin, as directed by the Delaware River Master.

REVISIONS (WATER YEARS).--WSP 821: Drainage area. WSP 1502: 1951(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	428	198	280	326	540	1070	628	248	372	196	161	203
2	345	186	290	300	410	895	572	310	320	175	158	171
3	308	160	380	240	380	750	1380	340	310	161	150	156
4	280	170	320	200	360	600	1760	360	486	154	154	129
5	263	191	230	200	370	520	1270	616	408	141	164	120
6	246	230	210	200	380	531	1060	492	1360	132	164	120
7	230	212	230	200	360	495	928	1000	1190	126	248	123
8	215	191	1790	240	340	514	832	768	840	117	213	120
9	202	181	2660	593	330	480	744	608	688	126	175	144
10	198	170	1440	826	308	350	664	540	680	220	156	132
11	195	163	1090	851	280	404	608	486	594	174	154	114
12	190	163	903	1320	260	389	564	582	1840	141	144	123
13	191	593	793	1210	240	477	516	1470	3030	228	129	138
14	186	465	763	1080	240	495	462	1510	1990	516	144	141
15	217	394	696	900	260	436	438	992	1400	570	132	129
16	250	365	579	700	298	410	426	1080	1170	516	141	123
17	394	341	678	600	298	415	402	1060	952	372	168	108
18	336	317	579	520	303	430	378	776	672	315	161	103
19	289	298	568	580	317	591	372	672	564	270	138	123
20	280	312	445	470	334	3610	355	558	492	248	120	157
21	246	477	430	420	317	2410	345	486	408	510	114	150
22	242	442	410	400	317	1710	370	486	335	378	114	135
23	227	375	384	420	415	1380	305	808	295	285	111	161
24	219	350	375	350	1960	1240	340	608	265	240	157	450
25	209	341	415	400	3430	1320	444	688	244	438	206	1060
26	205	322	415	851	2260	1070	396	558	224	345	171	928
27	195	260	350	668	1630	851	345	492	213	280	156	840
28	184	250	300	566	1280	738	305	432	217	244	157	632
29	177	250	300	599	---	675	280	366	252	217	141	510
30	174	230	331	776	---	766	256	350	232	189	252	432
31	191	---	317	648	---	731	---	420	---	174	330	---
TOTAL	7514	8595	18587	17394	18231	26857	17637	20264	21243	8198	5071	7973
MEAN	242	287	600	561	651	866	588	654	708	264	164	266
MAX	428	593	2660	1320	3430	3610	1760	1510	3030	570	330	1060
MIN	174	160	200	200	240	350	256	248	213	117	111	103

CAL YR 1974 TOTAL 164218 MEAN 450 MAX 2660 MIN 85
WTR YR 1975 TOTAL 177364 MEAN 486 MAX 3610 MIN 103

DELAWARE RIVER BASIN

01438500 Delaware River at Montague, N. J.

LOCATION.--Lat 41°18'33", long 74°47'44", Sussex County, on right bank 0.4 mi (0.6 km) upstream from toll bridge at Montague, 0.8 mi (1.3 km) downstream from Sawkill Creek, and at mile 246.3 (396.3 km).

DRAINAGE AREA.--3,480 mi² (9,013 km²).

PERIOD OF RECORD.--March 1936 to September 1939 (gage heights only, published as "at Milford, Pa."), October 1939 to current year. Monthly discharge only for some periods, published in WSP 1302.

GAGE.--Water-stage recorder. Datum of gage is 369.93 ft (112.755 m) above mean sea level. Prior to Feb. 9, 1940, nonrecording gage on upstream side of left span of subsequently dismantled bridge at present site at datum 70 ft (21.3 m) lower.

AVERAGE DISCHARGE.--36 years, 5,877 ft³/s (166.4 m³/s), unadjusted.

EXTREMES.--Current year: Maximum discharge, 62,100 ft³/s (1,760 m³/s) Feb. 25 (gage height, 17.52 ft or 5.340 m); minimum, 1,210 ft³/s (34.3 m³/s) July. 9; minimum daily, 1,530 ft³/s (43.3 m³/s) Sept. 7.
Period of record: Maximum discharge, 250,000 ft³/s (7,080 m³/s) Aug. 19, 1955 (gage height, 35.15 ft or 10.714 m); from rating curve extended above 90,000 ft³/s (2,550 m³/s) on basis of flood-routing study; minimum, 382 ft³/s (10.8 m³/s) Aug. 24, 1054, gage height, 3.83 ft (1.167 m); minimum daily, 412 ft³/s (11.7 m³/s) Aug. 23, 1954.
Maximum stage during period 1903-75, 35.5 ft (10.82 m) Oct. 10, 1903, present datum, from floodmark.

REMARKS.--Records excellent. Diurnal fluctuations at medium and low flow caused by powerplants on tributary streams. Flow regulated by Lake Wallenpaupack and by Pepacton, Cannonsville, Swinging Bridge, Toronto, Cliff Lake, and Neversink Reservoirs (see Delaware River Basin, reservoirs in) and smaller reservoirs. Diversion from Pepacton, Cannsville, and Neversink Reservoirs (see Delaware River Basin, diversions).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9710	2160	4170	4660	9830	17600	10400	3930	3630	2990	2380	4860
2	7500	1960	4660	3900	8610	13900	9080	4040	3680	2730	1750	3410
3	6080	2030	5010	4280	7990	11700	11600	4610	3720	2450	1900	3290
4	5230	1810	5330	3780	7780	10400	26300	4580	4120	2100	1760	2690
5	4480	1750	4430	3850	7000	8940	22000	8550	4480	1670	2070	2490
6	4020	2050	4020	3840	6740	8190	17800	9110	9320	1720	2100	2160
7	3750	3590	3590	3940	7090	7040	14600	12800	16400	1730	2970	1530
8	3410	3410	9260	3980	5610	7040	13200	15800	12500	2000	3450	1620
9	3250	2950	43600	5390	4870	6130	11100	12900	9260	1640	2790	2490
10	3140	2610	29300	11800	4460	5540	9870	10900	8550	2030	1750	2340
11	3600	2850	19700	11300	5190	6240	9130	9240	8850	2380	1700	2300
12	3700	2950	15300	20400	4660	5960	8220	8630	7770	2300	2030	2210
13	3430	6800	12900	20500	5000	6090	7540	12700	15600	2090	1800	1930
14	2470	11600	11600	16800	4800	6310	7170	15600	14500	2910	1730	2340
15	2950	9130	9200	13000	4200	5840	6840	14500	10900	3600	1750	2160
16	2450	8020	8590	11700	4200	5100	6310	13500	9680	3080	1830	2340
17	3320	6950	9570	10400	3720	4690	5830	13000	9040	2300	2050	2070
18	4260	6400	9220	9670	4800	5520	5400	10700	7680	2340	2200	1950
19	3650	5820	7710	7290	5150	5820	5270	9780	6630	2320	2050	1900
20	2510	5430	7250	7090	4800	22000	5080	9350	6050	1560	1950	1900
21	2340	7380	6530	7250	4550	31400	5730	8020	4830	3590	1900	2030
22	2230	9390	5420	5730	3780	21800	5540	7190	3790	7010	1900	2510
23	3120	7320	5320	5850	4190	17900	5120	7920	3490	4510	2030	3210
24	2450	6370	5600	5590	19400	16200	4980	6980	3840	3360	2140	4580
25	2610	6340	5430	5610	57800	18200	5750	6220	2610	4290	3360	13600
26	2230	6370	5600	8720	45900	17500	5850	5330	2590	4780	3540	25900
27	2190	5710	5790	11800	31500	15700	5970	4730	2450	3950	2950	19000
28	2190	5010	5150	9880	22600	12800	4820	4610	2300	3630	2320	15400
29	2390	4800	4340	9000	---	10700	4650	3680	2390	3630	1950	11700
30	2230	4330	4310	11400	---	10400	4350	3380	2570	2550	2200	9600
31	2160	---	5040	11500	---	11300	---	3490	---	2530	8270	---
TOTAL	110230	153090	283500	267000	306140	354750	265410	265770	202350	89910	74870	155510
MEAN	3556	5130	9145	8613	10940	11440	8847	8573	6745	2900	2415	5184
MAX	9710	11600	43600	20500	57800	31600	26300	15800	16400	7010	8270	25900
MIN	2160	1750	3590	3840	3720	4690	4350	3380	2300	1560	1700	1530

CAL YR 1974 TOTAL 2381840 MEAN 6526 MAX 43600 MIN 1200
WTR YR 1975 TOTAL 2529360 MEAN 6930 MAX 57800 MIN 1530

01440000 Flat Brook near Flatbrookville, N. J.

LOCATION.--Lat 41°06'24", long 74°57'09", Sussex County, on right bank 1.0 mi (1.6 km) upstream from Flatbrookville, 1.5 mi (2.4 km) upstream from mouth.

DRAINAGE AREA.--65.1 mi² (168.6 km²).

PERIOD OF RECORD.--July 1923 to current year.

GAGE.--Water-stage recorder. Concrete control since Aug. 19, 1929. Datum of gage is 347.73 ft (105.988 m) above mean sea level. Prior to Jan. 6, 1926, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--52 years, 108 ft³/s (3.059 m³/s) 22.53 in/yr (572 mm/yr).

EXTREMES.--Current year: Maximum discharge, 1,820 ft³/s (51.5 m³/s) Feb. 25 (gage height, 5.75 ft or 1.753 m, from peak-stage indicator); minimum, 17 ft³/s (0.48 m³/s) Sept. 6 (gage height, 1.89 ft or 0.576 m).
Period of record: Maximum discharge, 9,[illegible]00 ft³/s (271 m³/s) Aug. 19, 1955 (gage height, 12.58 ft or 3.834 m, from high-water mark in gage house) from rating curve extended above 2,000 ft³/s (56.6 m³/s) on basis of slope-area measurement of peak flow; minimum, 3.6 ft³/s (0.102 m³/s) Sept. 25, 26, 1964, Sept. 11, 1966.

REMARKS.--Records good except those for period of no gage-height record, which are fair. Flow occasionally regulated by ponds above station. Records of water quality for the current year are published in Section 2 of this report.

REVISIONS (WATER YEARS).--WSP 781: Drainage area. WSP 1432: 1924-25(M), 1928(M), 1929, 1930(M), 1932, 1933(M), 1936, 1938(M), 1939-40, 1949(M), 1952-53(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	168	45	58	111	201	277	168	89	98	37	23	27
2	119	44	70	114	182	241	144	114	89	33	23	23
3	96	42	84	99	161	209	578	114	70	32	23	21
4	82	41	86	99	141	178	495	141	77	31	24	19
5	70	40	83	96	144	168	430	315	72	29	37	18
6	64	43	82	84	147	157	324	205	217	27	31	18
7	58	42	86	94	144	150	261	290	225	25	82	19
8	51	40	160	89	124	147	229	233	127	24	56	18
9	48	37	390	286	124	124	197	193	97	24	40	33
10	46	37	270	430	101	119	178	168	82	24	32	30
11	43	63	220	324	111	119	161	154	68	23	29	22
12	40	45	190	355	99	119	147	164	82	23	25	22
13	39	130	175	360	114	138	136	281	133	45	23	26
14	39	122	165	346	109	124	133	241	102	302	23	25
15	39	115	159	241	121	119	124	182	77	286	23	22
16	62	111	160	225	99	114	124	175	72	114	22	19
17	135	107	190	193	111	121	114	161	94	79	23	19
18	94	96	190	171	150	124	106	138	74	58	23	18
19	72	88	140	257	175	141	111	130	66	49	21	22
20	70	84	142	245	175	670	109	116	102	45	19	33
21	62	80	150	171	150	505	99	106	66	64	19	30
22	56	78	140	178	154	319	91	90	54	52	18	25
23	52	75	122	161	233	261	86	91	49	48	18	45
24	49	72	120	147	705	231	99	94	44	35	18	237
25	52	71	128	192	1320	249	130	96	43	64	27	515
26	52	69	150	425	670	205	141	82	40	58	49	315
27	52	65	140	290	420	169	114	77	37	42	35	217
28	51	64	130	229	324	157	101	68	44	35	26	147
29	50	63	170	249	---	150	96	62	68	30	22	111
30	49	60	116	298	---	201	91	66	67	26	30	89
31	47	---	104	237	---	205	---	106	---	25	42	---
TOTAL	2007	2109	4530	6786	6709	6212	5789	4540	2516	1781	906	2186
MEAN	64.7	70.3	146	219	240	200	190	146	83.9	57.5	29.2	72.9
MAX	168	130	390	430	1320	670	495	315	225	302	82	515
MIN	39	37	58	84	99	114	86	62	37	23	18	18
CFSM	.99	1.08	2.24	3.36	3.69	3.07	2.92	2.24	1.29	.88	.45	1.12
IN.	1.15	1.21	2.59	3.88	3.83	3.55	3.26	2.59	1.44	1.02	.52	1.25

CAL YR 1974 TOTAL 45673 MEAN 125 MAX 610 MIN 17 CFSM 1.92 IN 26.10
WTR YR 1975 TOTAL 45991 MEAN 126 MAX 1320 MIN 18 CFSM 1.94 IN 26.28

PEAK DISCHARGE (BASE, 650 CFS)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
12-09	unknown	4.54	1,070	2-25	0715	5.75	1,820
1-09	unknown	3.74	670	3-20	1545	3.91	755
				4-03	2345	5.11	1,410

NOTE.--No gage-height record Oct. 24 to Dec. 31.

01440200 Delaware River below Tocks Island damsite, near Delaware Water Gap, Pa.

LOCATION.--Lat 41°00'42", long 75°05'09", Warren County, N. J., on left bank 40 ft (12.2 m) streamward from River Road, 1.0 mi (1.6 km) downstream from Tocks Island, 3.7 mi (6.0 km) northeast of Delaware Water Gap, Pa., 4.0 mi (6.4 km) upstream from bridge on Interstate Highway 80, and at mile 216.1 (347.7 km).

DRAINAGE AREA.--3,850 mi² (9,970 km²) approximately.

PERIOD OF RECORD.--May 1964 to current year.

GAGE.--Water-stage recorder. Datum of gage is 293.64 ft (89.501 m) above mean sea level.

AVERAGE DISCHARGE.--11 years, 6,222 ft³/s (176.2 m³/s), unadjusted.

EXTREMES.--Current year: Maximum discharge, 69,400 ft³/s (1,965 m³/s) Feb. 25 (gage height, 18.06 ft or 5.505 m); minimum daily, 1,850 ft³/s (52.4 m³/s) Sept. 8.
Period of record: Maximum discharge, 103,000 ft³/s (2,920 m³/s) June 30, 1973 (gage height, 23.82 ft or 7.260 m); minimum daily, 580 ft³/s (16.4 m³/s) July 7, 8, 1965.

REMARKS.--Records fair. Diurnal fluctuation at medium and low flow caused by powerplants on tributary streams. Flow regulated by Lake Wallenpaupack, and by Pepacton, Cannonsville, Swinging Bridge, Toronto, Cliff Lake, and Neversink Reservoirs (see Delaware River Basin, reservoirs in) and smaller reservoirs. Diversion from Pepacton, Cannonsville, and Neversink Reservoirs (see Delaware River Basin, diversions). Records of water quality for the current year are published in Section 2 of this report (see sta 01442750).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12000	2450	4670	5920	11300	21300	12000	4800	4270	3500	3400	7000
2	9320	2300	5190	4730	9720	16400	10500	4800	4430	3600	3110	4200
3	7390	2280	6440	5410	8240	12900	13100	5400	4240	3000	2640	3050
4	6350	1940	6200	4850	8440	11800	27000	5800	4730	2700	2600	3200
5	5600	2030	5300	4090	7720	10200	28000	9250	4410	2300	2700	2900
6	4900	2060	4700	3480	7370	9190	21000	12000	8250	2100	3300	2600
7	4390	3700	4250	4550	7550	8560	17000	13100	17400	2100	3600	2000
8	4110	3990	10100	4590	7120	8010	15400	19200	14600	2300	4200	1850
9	3720	3690	45000	5790	5700	7050	13000	16200	10500	2100	3700	2500
10	3550	3070	38300	12100	5040	5810	11500	13900	9650	2250	2800	2650
11	4170	3000	25000	13900	6820	6740	10500	10700	9030	2500	2200	2500
12	4080	3370	18600	20300	6190	6630	9860	9800	8440	2650	2500	2550
13	4060	5440	15500	24300	5930	6480	8750	14600	14300	2900	2600	2220
14	3080	11000	13500	21100	6750	6830	8080	17000	16400	5200	2440	1910
15	3310	10500	11300	16200	6150	6330	8000	16200	12400	8000	2200	2380
16	3010	9260	10400	13700	5150	5770	7100	15100	10000	6800	2300	2480
17	3490	8400	11500	13100	4410	4870	6900	15000	10200	5800	2400	2240
18	5200	7630	11500	11700	5740	5940	6400	12400	8950	4500	2600	2200
19	4980	7050	9940	8890	6210	5810	6200	11100	8000	4200	2500	2150
20	3450	6410	9030	9200	6150	10400	5900	10600	7000	4000	2300	2150
21	3000	7450	8520	9500	5910	36800	6200	8000	5700	4700	2300	2300
22	3510	10400	7100	7400	5120	25500	6400	8200	5200	6700	2200	2600
23	3640	8740	6410	7090	4880	20400	5900	8500	4500	7100	2300	3430
24	2930	7420	7040	6890	14900	17400	5650	8200	4270	5100	2400	4440
25	2980	6820	7030	7150	62700	19800	6550	7490	4000	6500	3900	11300
26	2840	6800	6730	8680	56300	18800	6440	6890	3300	8000	4200	28600
27	2470	6510	7500	12600	39300	17600	6300	5770	3000	6000	3500	21800
28	2390	5030	6770	11400	27000	15800	5930	5970	3200	5000	3000	18300
29	2640	5320	5700	10500	---	12300	5600	4950	3500	5800	2400	13600
30	2710	4990	5250	11900	---	11800	5200	4260	3800	4600	2550	11200
31	2390	---	5070	12800	---	12500	---	4260	---	3800	6000	---
TOTAL	131640	170890	340320	314030	354610	392160	306360	309640	228770	135000	90900	172900
MEAN	4247	5696	10980	10130	12660	12650	10210	9988	7626	4355	2932	5763
MAX	12000	11000	45000	24300	62700	36800	28000	19200	17400	8000	6000	28600
MIN	2390	1940	4250	3480	4410	4870	5200	4260	3000	2100	2200	1850

CAL YR 1974 TOTAL 2719270 MEAN 7450 MAX 45000 MIN 1600
WTR YR 1975 TOTAL 2947240 MEAN 8075 MAX 62700 MIN 1850

NOTE.--Gage-height record doubtful Dec. 11 to May 10, no gage-height record June 19 to Sept. 11.

01443500 Paulins Kill at Blairstown, N. J.

LOCATION.--Lat 40°58'44", long 74°57'15", Warren County, on right bank 1,200 ft (370 m) upstream from bridge on State Highway 94 in Blairstown, 1,400 ft (430 m) upstream from Blairs Creek, and 10 mi (16 km) upstream from mouth.

DRAINAGE AREA.--126 mi² (326 km²).

PERIOD OF RECORD.--October 1921 to current year.

GAGE.--Water-stage recorder and concrete control (Aug. 1, 1931, to Aug. 3, 1941, concrete control at site 280 ft or 85 m, downstream). Datum of gage is 335.80 ft (102.370 m) above mean sea level. Prior to May 24, 1922, nonrecording gage and May 24, 1922, to July 31, 1931, water-stage recorder, at site of former highway bridge 1,300 ft (396 m) downstream at different datum. Aug. 1, 1931, to July 28, 1939, water-stage recorder at site 100 ft (30 m) downstream at present datum.

AVERAGE DISCHARGE.--54 years, 191 ft³/s (5.409 m³/s), 20.59 in/yr (523 mm/yr).

EXTREMES.--Current year: Maximum discharge, 1,810 ft³/s (51.3 m³/s) Apr. 4 (gage height, 5.36 ft or 1.634 m); minimum, 56 ft³/s (1.586 m³/s) July 13 (gage height, 1.68 ft or 0.512 m).
Period of record: Maximum discharge, 8,750 ft³/s (248 m³/s) Aug. 19, 1955 (gage height, 11.12 ft or 3.389 m, from high-water mark in gage house); minimum, about 2.8 ft³/s (0.079 m³/s) Nov. 1, 1922; minimum daily, 5 ft³/s (0.14 m³/s) Aug. 13, 14, 1930.

REMARKS.--Records good except those above 800 ft³/s (23 m³/s), which are fair. Diurnal fluctuation caused by powerplant above station and flow regulated slightly by Swartswood Lake.

REVISIONS (WATER YEARS).--WSP 971: 1942. WSP 1382: 1952-53(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	322	102	111	189	362	540	293	191	196	116	194	114
2	256	102	141	185	327	449	265	211	184	93	179	95
3	229	99	175	184	297	383	910	219	159	89	162	88
4	209	96	144	177	267	335	1470	230	152	85	152	78
5	180	102	144	175	261	306	1060	336	153	78	253	75
6	161	105	171	167	261	290	761	285	467	75	186	73
7	147	99	146	179	256	280	562	420	515	73	188	69
8	134	93	341	179	238	273	470	372	289	68	172	68
9	126	96	783	329	226	263	399	312	230	66	151	70
10	118	111	487	468	201	225	357	277	196	62	134	70
11	111	166	385	389	203	219	322	269	174	58	126	63
12	105	161	341	385	201	223	293	238	198	57	119	82
13	108	214	303	424	195	268	268	288	249	144	112	126
14	108	199	279	438	196	263	250	338	214	998	123	101
15	105	189	256	356	191	231	239	272	183	1370	116	79
16	209	180	267	322	185	227	241	257	175	996	111	73
17	335	171	354	295	196	234	229	244	208	903	113	71
18	245	161	316	288	261	229	218	219	173	536	106	69
19	194	157	279	381	292	251	227	203	157	382	95	79
20	171	157	265	413	316	962	219	188	208	331	87	102
21	152	161	235	338	302	1020	203	179	183	537	79	116
22	130	152	227	319	308	698	187	173	149	479	76	103
23	134	147	218	297	364	521	180	172	131	346	76	172
24	130	143	211	279	847	459	200	158	123	287	83	695
25	122	139	234	334	1560	474	287	152	115	791	159	1440
26	122	134	271	729	1250	402	308	134	105	611	131	1220
27	118	130	235	568	989	346	258	130	99	415	121	973
28	111	126	218	413	702	368	223	114	118	327	102	639
29	108	118	207	452	---	276	204	103	169	276	87	450
30	108	111	199	504	---	331	192	125	146	239	125	367
31	105	---	194	413	---	338	---	192	---	213	148	---
TOTAL	4922	4121	8261	10509	11226	11564	11295	6981	5810	11101	4066	7018
MEAN	159	137	265	339	401	373	377	225	194	358	131	261
MAX	335	214	783	729	1560	1020	1470	420	515	1370	253	1440
MIN	105	93	111	167	185	219	180	103	99	57	76	63
CFSM	1.26	1.09	2.10	2.69	3.18	2.96	2.99	1.79	1.54	2.84	1.04	2.07
IN.	1.45	1.22	2.42	3.10	3.31	3.41	3.33	2.06	1.72	3.28	1.20	2.31

CAL YR 1974 TOTAL 84480 MEAN 231 MAX 960 MIN 32 CFSM 1.83 IN 24.94
WTR YR 1975 TOTAL 97614 MEAN 267 MAX 1560 MIN 57 CFSM 2.12 IN 28.82

PEAK DISCHARGE (BASE, 1,000 CFS)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
2-25	0945	5.10	1,670	7-15	0100	5.14	1,690
3-20	2015	3.86	1,190	9-25	0415	4.73	1,500
4-04	0015	5.36	1,810				

01443900 Yards Creek near Blairstown, N. J.

LOCATION.--Lat 40°58'51", long 75°02'25", Warren County, on left bank 100 ft (30 m) upstream of bridge on Hainesburg-Mount Vernon Road, 2.2 mi (3.5 km) northeast of Hainesburg, 2.4 mi (3.9 km) upstream from mouth, and 4.2 mi (6.8 km) west of Blairstown.

DRAINAGE AREA.--7.16 mi² (18.54 km²).

PERIOD OF RECORD.--October 1966 to current year.

GAGE.--Water-stage recorder with concrete control. Altitude of gage is 618 ft (188 m), from topographic map.

AVERAGE DISCHARGE.--9 years, 10.5 ft³/s (0.297 m³/s), unadjusted.

EXTREMES.--Current year: Maximum discharge, 74 ft³/s (2.10 m³/s) Dec. 17, 18, 19, 20, Apr. 3, July 25 (gage height, 2.86 ft or 0.872 m); minimum daily, 0.58 ft³/s (0.016 m³/s) Sept. 9, 10.
Period of record: Maximum discharge, 140 ft³/s (3.96 m³/s) Jan. 14, 1968 (gage height, 3.14 ft or 0.957 m); maximum gage height, 3.66 ft (1.116 m) Feb. 6, 1971, backwater from ice; no flow Sept. 12, 1971.

REMARKS.--Records good except those for period of no gage-height record, which are poor. Complete regulation by the Jersey Central Power and Light Co., at Yards Creek Reservoir above station.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.2	2.7	3.9	2.3	19	54	8.3	9.1	6.7	5.3	10	.80
2	6.0	2.5	3.8	1.9	16	45	8.0	9.9	4.8	5.3	9.9	.76
3	4.9	2.4	4.1	1.7	16	38	36	9.1	5.0	5.7	8.0	.71
4	4.0	2.4	4.1	1.6	16	19	56	16	4.8	4.5	6.7	.71
5	3.5	2.3	4.0	1.6	9.1	19	25	17	6.4	1.4	7.2	.71
6	3.1	2.3	4.1	1.4	8.8	20	27	23	12	1.3	7.0	.80
7	2.8	2.3	4.4	1.7	8.0	19	21	23	10	1.1	8.3	.64
8	2.6	2.2	8.4	1.6	7.5	19	21	21	6.2	1.1	7.6	.61
9	2.3	2.1	13	17	7.0	19	21	21	7.2	1.2	8.0	.58
10	2.2	2.0	16	22	6.8	16	21	21	17	1.3	8.0	.58
11	2.1	3.5	16	23	7.2	13	21	19	18	1.1	4.3	1.0
12	2.0	4.5	19	19	7.0	2.8	22	18	22	1.2	1.8	1.4
13	2.0	5.8	19	21	7.2	2.8	20	23	24	3.2	1.7	.76
14	2.0	6.2	19	19	7.6	2.7	15	21	25	12	1.8	.64
15	2.1	5.6	18	24	8.0	2.9	3.1	20	20	12	1.7	1.3
16	2.9	5.6	27	32	7.7	2.9	2.6	22	17	11	1.8	1.7
17	8.2	5.2	45	28	8.4	2.7	2.2	21	19	12	2.2	1.7
18	6.8	4.6	67	22	9.4	2.4	2.3	20	19	11	1.8	2.2
19	4.8	4.4	67	19	11	5.5	2.7	15	19	8.7	1.7	2.8
20	3.8	4.2	42	16	10	29	2.2	11	16	8.7	1.4	2.2
21	3.2	4.1	16	16	9.8	39	1.9	9.1	5.7	9.1	.80	1.7
22	3.0	3.9	15	23	12	31	1.7	6.0	5.3	11	.76	2.9
23	2.7	3.7	9.9	33	15	26	1.7	5.8	4.6	10	.76	4.6
24	2.9	3.6	2.4	30	19	27	5.8	5.6	4.8	11	.71	26
25	2.5	3.5	2.8	25	29	45	18	5.5	5.0	27	2.8	40
26	2.7	3.4	2.2	23	30	40	22	4.8	5.1	21	2.7	63
27	2.5	3.3	2.2	25	53	14	19	4.6	5.3	13	.93	62
28	2.3	3.2	2.2	38	56	9.1	18	4.8	7.4	11	.80	56
29	2.5	3.1	2.0	40	---	9.1	19	4.6	6.5	11	.84	21
30	2.7	3.0	1.8	40	---	9.9	16	6.1	5.6	10	1.6	16
31	2.4	---	1.8	35	---	8.3	---	5.7	---	9.9	.93	---
TOTAL	104.7	107.6	463.2	599.8	421.5	593.0	453.5	420.7	334.4	253.1	114.53	315.80
MEAN	3.38	3.59	14.9	19.3	15.1	19.1	15.1	13.6	11.1	8.16	3.69	10.5
MAX	8.2	6.2	67	40	56	54	56	23	25	27	10	63
MIN	2.0	2.0	1.8	1.4	6.8	2.4	1.7	4.6	4.6	1.1	.71	.58

CAL YR 1974 TOTAL 3821.77 MEAN 10.5 MAX 67 MIN .41
WTR YR 1975 TOTAL 4181.83 MEAN 11.5 MAX 67 MIN .58

NOTE.--No gage-height record Nov. 1 to Dec. 10.

DELAWARE RIVER BASIN

01445500 Pequest River at Pequest, N. J.

LOCATION.--Lat 40°49'43", long 74°58'45", Warren County, on right bank at Pequest, 100 ft (30 m) upstream from Lehigh and Hudson River Railway Bridge, and 300 ft (91 m) downstream from Furnace Brook.

DRAINAGE AREA.--108 mi² (280 km²).

PERIOD OF RECORD.--October 1921 to current year. Monthly discharge only for October 1921, published in WSP 1302.

GAGE.--Water-stage recorder. Concrete control since Sept. 29, 1929. Datum of gage is 398.78 ft (121.548 m) above mean sea level. Prior to June 22, 1926, nonrecording gage at site 10 ft (3 m) upstream at same datum.

AVERAGE DISCHARGE.--54 years, 152 ft³/s (4.305 m³/s), 19.11 in/yr (485 mm/yr).

EXTREMES.--Current year: Maximum discharge, 1,420 ft³/s (40.2 m³/s) July 14 (gage height, 4.73 ft or 1.442 m); minimum, 77 ft³/s (2.18 m³/s) Nov. 2-5 (gage height, 1.55 ft or 0.472 m).
Period of record: Maximum discharge, 1,810 ft³/s (51.3 m³/s) Mar. 14, 1936 (gage height, 4.97 ft or 1.515 m); minimum, 12 ft³/s (0.34 m³/s) Aug. 17-22, Dec. 10, 1965.

REMARKS.--Records excellent. Records of water quality for the current year are published in Section 2 of this report.

REVISIONS (WATER YEARS).--WSP 1902: 1940(M), 1945(M), 1945, 1955(M), 1957(M), 1957, 1959(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	211	82	82	163	316	385	269	180	349	145	312	143
2	167	80	262	171	292	349	245	190	254	119	279	129
3	139	77	246	151	262	317	579	191	200	109	250	120
4	121	77	199	143	236	287	720	209	172	105	237	110
5	116	78	158	141	229	268	608	255	176	96	249	103
6	112	88	139	133	234	256	499	230	654	92	265	101
7	105	92	129	146	236	248	423	301	675	98	271	96
8	101	88	341	161	218	246	376	261	452	88	247	92
9	96	85	422	365	206	223	340	231	347	88	224	96
10	88	85	329	341	185	212	313	211	285	90	200	89
11	85	92	291	308	185	204	290	195	240	82	184	86
12	83	92	262	277	170	208	269	187	300	78	172	157
13	82	238	238	326	169	230	250	272	320	490	161	208
14	80	184	224	322	182	216	235	397	262	1160	153	148
15	78	161	208	272	170	211	230	280	223	1290	143	121
16	187	142	252	244	167	213	235	263	216	1060	149	110
17	259	126	323	224	181	214	225	239	234	764	147	105
18	196	114	277	235	246	198	209	214	196	562	139	96
19	158	107	242	348	313	248	217	198	193	443	129	100
20	129	109	215	370	308	685	208	183	218	424	119	106
21	114	131	203	280	281	562	193	173	181	730	111	141
22	105	121	195	279	262	470	178	167	164	503	106	121
23	101	107	183	262	308	393	168	192	142	403	100	285
24	96	96	179	250	490	364	187	163	129	340	111	720
25	96	90	197	354	727	381	270	169	126	1060	316	1030
26	94	88	208	508	587	343	320	192	119	976	242	848
27	105	82	191	391	512	311	265	182	114	789	218	729
28	105	80	178	343	434	285	224	148	164	616	181	562
29	83	82	165	408	---	272	199	130	208	490	156	446
30	82	80	157	413	---	301	184	139	187	405	161	376
31	82	---	152	358	---	293	---	194	---	348	161	---
TOTAL	3656	3154	6887	8687	8106	9393	8928	6536	7500	14043	5893	7574
MEAN	118	105	222	280	290	303	298	211	250	453	190	252
MAX	259	238	422	508	727	685	720	397	675	1290	316	1030
MIN	78	77	82	133	167	198	168	130	114	78	100	86
CFSM	1.09	.97	2.06	2.59	2.69	2.81	2.76	1.95	2.31	4.19	1.76	2.33
IN.	1.26	1.09	2.37	2.99	2.79	3.24	3.08	2.25	2.58	4.84	2.03	2.61

CAL YR 1974 TOTAL 69080 MEAN 189 MAX 616 MIN 40 CFSM 1.75 IN 23.79
WTR YR 1975 TOTAL 90357 MEAN 248 MAX 1290 MIN 77 CFSM 2.30 IN 31.12

PEAK DISCHARGE (BASE, 650 CFS)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
2-25	0415	3.54	818	7-14	1600	4.73	1,420
3-20	0415	3.36	737	7-21	0745	3.63	859
4-03	1930	3.85	964	7-25	1230	4.32	1,200
6-07	0200	3.59	841	9-25	0315	4.09	1,080

01446500 Delaware River at Belvidere, N. J.

LOCATION.--Lat 40°49'36", long 75°05'02", Warren County, on left bank at Belvidere, 800 ft (240 m) downstream from Pequest River, and at mile 197.7 (318.1 km).

DRAINAGE AREA.--4,535 mi² (11,746 km²).

PERIOD OF RECORD.--October 1922 to current year.

GAGE.--Water-stage recorder. Datum of gage is 226.43 ft (69.016 m) above mean sea level. Prior to Jan 1, 1929, nonrecording gage at site 200 ft (61 m) upstream at same datum.

AVERAGE DISCHARGE.--53 years, 7,875 ft³/s (223.0 m³/s), unadjusted.

EXTREMES.--Current year: Maximum discharge, 73,300 ft³/s (2,080 m³/s) Feb. 25 (gage height, 15.26 ft or 4.651 m); minimum, 2,160 ft³/s (61.2 m³/s) Aug. 22, Sept. 8 (gage height 3.44 ft or 1.049 m).

Period of record: Maximum discharge, 273,000 ft³/s (7,730 m³/s) Aug. 19, 1955 (gage height, 30.21 ft or 9.208 m, from high-water mark in gage house), from rating curve extended above 170,000 ft³/s (4,810 m³/s) on basis of flood-routing study; minimum, 609 ft³/s (17.2 m³/s) Sept. 28, 29, 1943 (gage height, 2.11 ft or 0.643 m).

Flood of Oct. 10, 1903, reached a stage of 28.6 ft (8.72 m), from floodmark, discharge, 220,000 ft³/s (6,230 m³/s), from rating curve extended above 170,000 ft³/s (4,810 m³/s).

REMARKS.--Records excellent. Diurnal fluctuation at medium and low flow caused by powerplants on tributary streams. Flow regulated by Lake Wallenpaupack, and by Pepacton, Cannonsville, Swinging Bridge, Toronto, Cliff Lake, and Neversink Reservoirs (see Delaware River Basin, reservoirs in) and smaller reservoirs. Diversion from Pepacton, Cannonsville, and Neversink Reservoirs (see Delaware River Basin, diversions).

REVISIONS (WATER YEARS).--WSP 781: 1933(M). WSP 951: 1940-41, Drainage area. WSP 1432: 1923, 1924(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	14000	2950	5220	6900	14800	26000	14700	6030	5510	4260	4030	9690
2	10700	2910	6060	6000	12700	21100	12700	6000	5450	4470	3630	5220
3	8500	2760	7480	6090	10900	17100	15600	6510	5160	3750	3060	4280
4	7330	2680	7630	5720	11000	15600	31300	7050	5450	3510	3150	3800
5	6410	2580	6640	5080	10100	13400	33500	9970	5690	2830	3540	3510
6	5660	2540	5720	4410	9490	11900	26500	13300	9140	2620	3970	3220
7	5100	3830	5340	5190	9690	10900	21300	13800	18800	2560	4200	2700
8	4770	4340	11500	5540	9250	10600	18900	20300	18100	2760	5340	2180
9	4360	4030	47800	7850	7410	9370	16200	17800	13000	2580	4680	2480
10	4150	3470	48500	13900	5780	8080	14300	15200	11400	2580	3800	3130
11	4390	3350	30300	17000	6640	8580	12800	13000	10300	2910	3020	2890
12	4500	3750	22300	21700	6510	8580	12000	11700	10100	3100	3100	3080
13	4440	5940	18500	27800	6030	8460	10600	14200	13800	3630	3040	3190
14	3800	12900	16100	25000	6410	8780	9890	19900	19300	7120	2850	2640
15	3490	12400	13300	19500	6570	8500	9730	19200	14700	9450	2740	3040
16	4130	10700	12300	16000	6410	7890	9020	17700	12300	8840	2720	2950
17	4960	9210	14200	14800	5690	6830	8460	17600	11800	6730	2850	2870
18	5910	8150	13900	12400	6730	7590	7850	15100	10300	5190	3130	2580
19	5810	7630	12000	11100	7740	7810	7630	13100	9140	4910	3100	2600
20	4500	7050	10000	11400	7960	20400	7300	12600	8390	4630	2870	2830
21	3730	7630	9930	10600	7480	42400	7190	11200	7330	5600	2700	2790
22	3880	10100	8580	9060	6800	32600	7590	10000	5630	7850	2580	2870
23	4200	10100	7630	8780	6600	25800	7050	9730	4910	8310	2700	4340
24	3750	8150	8000	8460	15000	21900	6830	10300	5020	5970	2830	7770
25	3490	7410	8150	8700	63900	22700	7810	8660	4360	10000	4550	15300
26	3420	7660	8000	11500	66100	22900	9020	8150	3680	9410	5220	30900
27	3060	7330	8460	15200	47100	21000	7960	6800	3590	7930	4410	26700
28	3040	6510	7770	14400	33500	18200	7050	6700	3830	6470	3780	22200
29	3100	5970	6670	13100	---	14900	6770	5540	4990	6030	3040	16800
30	3190	5810	6220	14400	---	14300	6470	5160	4680	5190	2970	13800
31	2970	---	6670	16400	---	14800	---	5280	---	4340	5510	---
TOTAL	154740	189840	401470	373980	414290	488970	374020	357580	265850	164730	109110	212430
MEAN	4992	6328	12950	12060	14800	15770	12470	11530	8862	5314	3520	7081
MAX	14000	12900	48500	27800	66100	42400	33500	20300	19300	10000	5510	30900
MIN	2970	2540	5220	4410	5690	6830	6470	5160	3590	2560	2580	2180

CAL YR 1974 TOTAL 3244900 MEAN 8890 MAX 48500 MIN 1820
WTR YR 1975 TOTAL 3507010 MEAN 9608 MAX 66100 MIN 2180

DELAWARE RIVER BASIN

01446700 Delaware River at Easton, Pa.

LOCATION.--Lat 40°42'43", long 75°11'48", Northampton County, on right bank 200 ft (61 m) upstream from city of Easton pumping station, 1.2 mi (1.9 km) upstream from Bushkill Creek at Easton.

DRAINAGE AREA.--4,636 mi² (12,007 km²).

PERIOD OF RECORD.--October 1967 to current year.

GAGE.--Water-stage recorder. Datum of gage is 157.84 ft (48.110 m) above mean sea level.

AVERAGE DISCHARGE.--8 years, 8,937 ft³/s (253.1 m³/s), unadjusted.

EXTREMES.--Current year: Maximum discharge, 76,700 ft³/s (2,170 m³/s) Feb. 25 (gage height, 22.12 ft or 6.742 m, from floodmark); minimum daily, 2,610 ft³/s (73.9 m³/s) Sept. 8.
Period of record: Maximum discharge, about 100,000 ft³/s (2,830 m³/s) Dec. 22, 1973; minimum, 1,640 ft³/s (46.4 m³/s) Aug. 16, 1971 (gage height, 3.87 ft or 1.180 m).

REMARKS.--Records good. Diurnal fluctuation at medium and low flow caused by powerplants on tributary streams. Flow regulated by Lake Wallenpaupack and by Cannonsville, Pepacton, Swinging Bridge, Toronto, Cliff Lake, and Neversink Reservoirs about 100 mi (161 km) upstream (see Delaware River Basin, reservoirs in) and smaller reservoirs. Diversion from Cannonsville, Pepacton, and Neversink Reservoirs (see Delaware River Basin, diversions). Records of water quality for the current year are published in Section 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	14600	3470	5830	7520	15700	28000	15200	6560	6140	4760	4650	9300
2	12000	3530	6510	6780	13500	23000	13300	6490	6020	4920	4350	6030
3	9550	3390	8050	6460	11700	18000	16800	6960	5610	4320	3650	4770
4	8230	3280	8400	6320	11500	16500	31500	7540	5900	4040	3780	4400
5	6900	3090	7440	5740	10700	13700	34300	10100	6270	3570	4000	4050
6	6180	3090	6410	5010	10100	12500	27300	13900	9350	3080	4480	3770
7	5730	4050	5960	5450	10100	11500	22300	14000	19300	3070	4680	3410
8	5010	4700	11600	6070	9940	11000	19800	20700	19400	3060	5710	2610
9	4700	4690	45600	6630	8170	9400	17000	18600	14100	3290	5310	2650
10	4400	4280	48900	14300	6670	8200	15000	15900	11900	2940	4580	3470
11	4550	4180	32200	17800	6850	8800	13500	13700	10800	3290	3610	3280
12	4800	4170	23700	21600	7220	8920	12500	12200	10600	3570	3460	3460
13	4750	6030	19500	28800	6640	8860	11200	13900	13700	4160	3650	3670
14	4200	12900	16800	26000	6900	9110	10500	20400	20100	7710	3370	3190
15	3750	13300	14100	20500	7230	8960	10200	20100	15600	10400	3230	3290
16	4500	11300	13000	16700	7120	8420	9480	18500	12900	9030	3290	3200
17	5420	9980	15100	15400	6500	7460	8980	18100	12300	7630	3310	3290
18	6270	8820	14600	13300	7050	7820	8340	15800	10900	5930	3460	3040
19	6610	8290	12900	12000	8370	8290	8170	13800	9790	5410	3670	3000
20	5410	7750	11300	12000	8760	21100	7810	13300	9130	5730	3640	3160
21	4400	8020	10500	11200	8210	42300	7590	11900	8110	6580	2850	3330
22	4290	10500	9240	9820	7690	33800	8040	10500	6460	8340	3070	3220
23	4800	10000	8260	9320	7250	26600	7590	10100	5530	9330	3060	4530
24	4500	8870	8410	9120	12600	22800	7330	10900	5290	6710	3240	9070
25	3990	8070	8610	9180	65000	23300	8210	9240	5200	13500	5380	17200
26	4030	8290	8580	12000	69000	23600	9400	8720	4170	10900	5720	30800
27	3680	8010	8870	15800	50000	21500	8560	7470	4070	9050	5050	28800
28	3610	7240	8380	15400	37000	18800	7620	7120	4170	7440	4460	23700
29	3570	6620	7440	13900	---	15500	7300	6190	5450	6760	3690	17900
30	3710	6420	6820	15000	---	14700	7020	5680	5290	6030	3490	14500
31	3550	---	7020	17300	---	15200	---	5830	---	4940	5170	---
TOTAL	171690	206970	420030	392420	437470	507640	391840	374200	283550	189490	125060	230090
MEAN	5538	6899	13550	12660	15620	16380	13060	12070	9452	6113	4034	7670
MAX	14600	13300	48900	28800	69000	42300	34300	20700	20100	13500	5720	30800
MIN	3550	3090	5830	5010	6500	7460	7020	5680	4070	2940	2850	2610

CAL YR 1974 TOTAL 3382200 MEAN 9266 MAX 48,900 MIN 2000
WTR YR 1975 TOTAL 3730450 MEAN 10220 MAX 69,000 MIN 2610

01453000 Lehigh River at Bethlehem, Pa.

LOCATION.--Lat 40°36'55", long 75°22'45", Lehigh County, on left bank 120 ft (37 m) upstream from New Street Bridge at Bethlehem, and 1,800 ft (549 m) upstream from Monocacy Creek.

DRAINAGE AREA.--1,279 mi² (3,313 km²) includes that of Monocacy Creek. At site used prior to Oct. 1, 1928, 1,229 mi² (3,183 km²).

PERIOD OF RECORD.--Sept. 1902 to February 1905, April 1909 to current year. Monthly discharge only for some periods, published in WSP 1302. Published as "at South Bethlehem" prior to Oct. 1913.

GAGE.--Water-stage recorder. Datum of gage is 210.94 ft (64.295 m) above mean sea level. Prior to October 1928, nonrecording gage at New Street Bridge 120 ft (37 m) downstream at same datum. Oct. 1, 1928, to Sept. 30, 1962, water-stage recorder at site 4,250 ft (1,295 m) downstream at datum 2.49 ft (0.759 m) lower.

AVERAGE DISCHARGE.--68 years (1902-4, 1909-75), 2,304 ft³/s (65.25 m³/s), 24.46 in/yr (621 mm/yr), adjusted for diversion 1902-04, 1909-42 and, for recirculated water, October 1, 1959 to September 30, 1962.

EXTREMES.--Current year: Maximum discharge, 20,100 ft³/s (569 m³/s) Dec. 8 (gage height, 8.63 ft or 2.630 m); minimum, 1,320 ft³/s (37.4 m³/s) Nov. 8; minimum gage height, 1.77 ft (0.539 m) Sept. 17.

Period of record: Maximum discharge, 92,000 ft³/s (2,610 m³/s) May 23, 1942 (gage height, about 25.9 ft or 7.89 m, from floodmark, present site and datum), from rating curve extended above 48,000 ft³/s (1,360 m³/s); minimum, 125 ft³/s (3.54 m³/s) June 28, 1965 (gage height, 0.94 ft or 0.287 m).

Flood of Feb. 28, 1902, reached a stage of 24.9 ft (7.59 m) from floodmark, present site and datum (discharge, about 88,000 ft³/s or 2,490 m³/s).

REMARKS.--Records fair. Flow regulated by Wild Creek Reservoir since January 1941, Penn Forest Reservoir since October 1958, Francis E. Walter Reservoir since February 1961, and Beltzville Lake since February 1971, (see Delaware River Basin, reservoirs in). Records of water quality for the current year are published in Section 2 of WRD-PA 1975.

REVISIONS (WATER YEARS).--WSP 261: 1903-5. WSP 321: 1910-11. WSP 1051: Drainage area. WSP 1141: 1929-34(M). WSP 1302: 1914(M), 1916(M), 1918, 1921, 1927-28. WSP 1432: 1903, 1919(M), 1920-21, 1929, 1933.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3250	1450	1680	2370	4670	8190	4160	2310	2710	3950	2710	1770
2	2990	1410	1960	2430	4200	7310	3970	2450	2630	3690	2510	1730
3	2600	1480	2220	2230	3870	6430	7480	2690	2400	3450	2350	1670
4	2400	1450	2190	2150	3430	4550	9310	3490	2280	3430	2430	1550
5	2100	1420	2000	2110	3160	3690	7500	5350	2550	2830	3490	1520
6	2000	1440	1820	2050	3270	3510	6230	5100	5400	2510	2930	1500
7	1900	1390	1740	2050	3230	3440	5230	4980	6680	2380	3270	1480
8	1800	1390	8450	2000	2970	3410	4850	4650	5630	2290	2850	1450
9	1700	1410	14200	4580	2840	3160	4430	3970	4030	2290	2530	1450
10	1600	1390	11100	6470	2600	3050	4140	3810	3490	2830	2210	1420
11	1500	1380	9420	5880	2430	2880	3870	3450	3190	2380	2150	1420
12	1500	1510	8060	6390	2360	2820	3690	3330	3510	2260	2210	1950
13	1500	2530	5670	7100	2380	3050	3510	3950	4370	3070	1980	1820
14	1500	2670	4110	6220	2300	2850	3350	5430	3870	6600	1890	1510
15	1500	2490	3700	5090	2230	2820	2990	5650	3670	7750	1760	1440
16	2000	2100	4590	4410	2230	2780	2910	5330	3510	5850	2140	1420
17	2120	1890	6840	4070	2260	2720	2790	4780	3270	5980	2170	1410
18	2100	1880	6010	3610	2900	2620	2690	4390	2970	4950	1760	1460
19	1970	1920	4920	3840	3410	3230	2790	4280	2710	4500	1680	1600
20	1800	1920	4320	3790	3700	13700	2730	3870	2750	4870	1610	1950
21	1710	2010	3830	3100	3390	10800	2570	3350	2830	4700	1550	2040
22	1560	2220	3560	3070	3280	8860	2380	3090	2570	4100	1650	1670
23	1410	2010	3320	2930	3690	8020	2310	3890	2280	3630	1590	2570
24	1440	1910	2920	2790	7420	7450	2380	3350	2170	3370	1640	8080
25	1470	1910	3040	3050	16200	8140	2930	3310	2040	10500	1760	11800
26	1480	1880	3100	4640	12800	7640	3250	3290	2090	8600	1700	8400
27	1480	1760	2980	4350	10400	6730	3010	3110	2330	6400	1610	9660
28	1460	1760	2730	4130	10400	4850	2950	2770	3970	4700	1550	8610
29	1450	1770	2590	4550	---	4100	2870	2470	5880	3630	1550	6640
30	1450	1700	2490	5510	---	4370	2650	2590	5200	3270	1770	5250
31	1450	---	2260	5430	---	4430	---	2550	---	2970	1850	---
TOTAL	56270	53450	137740	122590	128020	161600	115920	117030	102980	132930	64850	96240
MEAN	1815	1782	4443	3955	4572	5213	3864	3775	3433	4288	2092	3208
MAX	3250	2670	14200	7100	16200	13700	9310	5650	6680	10500	3490	11800
MIN	1410	1380	1680	2000	2230	2620	2310	2310	2040	2260	1550	1410
CFSM	1.42	1.39	3.47	3.09	3.57	4.08	3.02	2.95	2.68	3.35	1.64	2.51
IN.	1.64	1.55	4.01	3.57	3.72	4.70	3.37	3.40	[illegible].00	3.87	1.89	2.80

CAL YR 1974 TOTAL 1066675 MEAN 2922 MAX 14200 MIN 885 CFSM 2.28 IN 31.02
WTR YR 1975 TOTAL 1289620 MEAN 3533 MAX 16200 MIN 1380 CFSM 2.76 IN 37.51

01455500 Musconetcong River at outlet of Lake Hopatcong, N. J.

LOCATION.--Lat 40°55'00", long 74°39'55", Morris County, on left bank just upstream of highway bridge and 300 ft (91 m) downstream from Lake Hopatcong Dam in Landing.

DRAINAGE AREA.--25.6 mi² (66.3 km²).

PERIOD OF RECORD.--July 1928 to September 1975 (discontinued).

GAGE.--Water-stage recorder and concrete control. Prior to Aug. 24, 1967, concrete control at site 40 ft (12 m) downstream. Datum of gage is 904.99 ft (275.841 m) above mean sea level (New Jersey Geological Survey bench mark).

AVERAGE DISCHARGE.--47 years, 43.6 ft³/s (1.35 m³/s), unadjusted.

EXTREMES.--Current year: Maximum discharge, 340 ft³/s (9.63 m³/s), July 14 (gage height, 4.11 ft or 1.253 m); minimum daily, 5.5 ft³/s (0.16 m³/s) Mar. 20.

Period of record: Maximum discharge, 795 ft³/s (22.5 m³/s) Aug. 20, 1955 (gage height, 3.85 ft or 1.173 m), from rating curve extended above 300 ft³/s (8.50 m³/s); maximum gage height, 3.96 ft (1.207 m) Aug. 5, 1969; no flow many days in some years.

REMARKS.--Records excellent. Flow regulated by Lake Hopatcong (see Delaware River Basin, reservoirs in).

COOPERATION.--Water-stage recorder inspected by employees of Morris Canal and Banking Company.

REVISIONS (WATER YEARS).--WSP 781: 1928(M), Drainage area. WSP 1051: 1944-45.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	80	116	30	44	124	38	7.8	49	54	49	89	26
2	80	116	30	24	124	37	7.8	51	53	39	55	52
3	80	115	51	15	124	37	21	48	47	36	50	72
4	80	80	59	16	123	37	48	56	44	33	45	68
5	79	27	59	16	123	37	59	68	44	28	53	96
6	79	27	59	15	123	37	63	63	99	27	51	120
7	79	26	59	16	123	18	63	71	123	26	46	120
8	78	26	59	15	122	9.2	62	66	119	22	41	118
9	78	26	105	27	122	9.8	59	61	109	21	35	118
10	77	26	123	38	71	9.4	56	57	92	20	30	117
11	75	25	123	38	37	9.4	55	51	78	17	28	117
12	75	15	123	55	37	9.4	52	49	88	16	26	116
13	75	6.2	132	63	37	9.2	48	76	106	138	23	117
14	75	6.6	138	63	37	8.2	44	109	100	290	21	117
15	74	6.0	136	63	37	6.7	43	98	88	329	19	116
16	89	5.9	149	96	37	6.9	44	103	79	309	20	116
17	117	5.9	163	110	37	8.0	41	99	76	261	19	116
18	136	8.2	163	109	37	9.4	37	88	65	254	19	138
19	135	8.4	163	109	37	7.1	42	81	63	176	16	147
20	134	8.4	162	110	37	5.5	40	72	67	141	14	146
21	133	20	160	109	37	6.9	39	68	57	199	12	146
22	133	31	159	109	37	8.2	32	59	47	193	11	159
23	115	31	158	109	37	8.2	31	56	40	163	11	174
24	101	31	156	109	38	8.4	37	58	37	145	11	163
25	101	31	158	109	72	8.2	59	53	36	228	34	100
26	111	31	156	109	86	8.0	71	39	31	220	39	122
27	118	30	85	109	87	8.0	65	36	31	167	37	147
28	118	30	44	121	57	8.0	59	33	39	151	31	163
29	117	30	44	126	---	8.0	56	28	57	158	27	163
30	117	30	44	126	---	7.8	51	28	62	147	31	163
31	117	---	44	126	---	7.8	---	35	---	129	31	---
TOTAL	3056	975.6	3294	2302	2000	436.7	1392.6	1909	2031	4132	975	3653
MEAN	98.6	32.5	106	74.3	71.4	14.1	46.4	61.6	67.7	133	31.5	122
MAX	136	116	163	126	124	38	71	109	123	329	89	174
MIN	74	5.9	30	15	37	5.5	7.8	28	31	16	11	26

CAL YR 1974 TOTAL 20994.7 MEAN 57.5 MAX 205 MIN 2.4
WTR YR 1975 TOTAL 26156.9 MEAN 71.7 MAX 329 MIN 5.5

01457000 Musconetcong River near Bloomsbury, N. J.

LOCATION.--Lat 40°40'20", long 75°03'40", Warren County, on right bank just downstream from highway bridge, 1.5 mi (2.4 km) upstream from Bloomsbury, and 9.5 mi (15.3 km) upstream from mouth.

DRAINAGE AREA.--143 mi² (370 km²).

PERIOD OF RECORD.--July 1903 to March 1907, July 1921 to current year.

GAGE.--Water-stage recorder. Concrete control since Sept. 29, 1932. Datum of gage is 274.83 ft (83.768 m) above mean sea level. July 1903 to Mar. 31, 1907, nonrecording gage at bridge 15 ft (4.6 m) upstream at different datum. July 26 to Sept. 21, 1921, nonrecording gage at bridge at present datum.

AVERAGE DISCHARGE.--57 years (1903-6, 1921-75), 230 ft³/s (6.514 m³/s), unadjusted.

EXTREMES.--Current year: Maximum discharge, 3,030 ft³/s (85.8 m³/s) July 14 (gage height, 6.15 ft or 1.874 m), from rating curve extended above 1,800 ft³/s (51.0 m³/s) on basis of slope-area measurement at gage-height, 6.95 ft (2.118 m); minimum, 143 ft³/s (4.05 m³/s) Nov. 10-12 (gage height, 1.55 ft or 0.472 m).

Period of record: Maximum discharge 6,960 ft³/s (197 m³/s) Oct. 10, 1903 (gage height, 8.00 ft or 2.438 m, from graph of gage readings, site and datum then in use) from rating curve extended above 1,800 ft³/s (51.0 m³/s) on basis of slope-area measurement at gage height 6.95 ft (2.118 m); minimum, 8.1 ft³/s (0.23 m³/s) Aug. 2, 1955; minimum daily, 27 ft³/s (0.76 m³/s) Sept. 8, 1966.

REMARKS.--Records excellent. Flow regulated by Lake Hopatcong (see Delaware River Basin, reservoirs in). Diurnal fluctuation caused by small powerplants above station. Records of water quality for the current year are published in Section 2 of this report.

REVISIONS (WATER YEARS).--WSP 521: Drainage area. WSP 1051: 1944-45. WSP 1382: 1904-6, 1922, 1923-29(M), 1931(M), 1933-34(M), 1936(M), 1940, 1942(M), 1944-45(M), 1951-52(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	328	245	160	250	495	477	327	273	356	240	476	207
2	288	241	396	252	473	422	304	289	299	218	425	191
3	272	245	412	223	451	387	530	295	254	205	365	187
4	264	241	324	203	429	356	593	350	230	195	346	206
5	245	228	292	196	435	337	513	436	260	182	363	206
6	234	181	268	187	444	326	465	388	538	175	356	217
7	228	160	253	224	437	321	439	427	662	181	357	247
8	222	153	528	238	418	314	415	386	564	169	329	244
9	216	148	690	509	395	270	387	343	470	166	300	243
10	210	145	572	484	373	252	362	318	409	168	273	236
11	207	143	516	435	330	248	347	297	353	155	258	230
12	201	153	476	410	285	263	334	293	453	150	244	319
13	201	376	444	463	288	288	317	449	480	1250	230	447
14	201	292	428	469	272	270	304	573	413	2070	225	336
15	198	225	416	416	260	264	295	498	361	1400	210	275
16	396	198	520	381	259	251	292	487	358	1310	266	257
17	444	181	568	378	287	248	281	446	370	977	232	250
18	364	170	520	431	385	235	267	406	324	864	218	243
19	344	163	484	546	410	433	283	372	315	736	204	267
20	324	163	464	559	381	1000	280	345	352	703	195	301
21	308	178	468	483	341	738	259	324	281	1030	181	321
22	296	176	416	453	319	580	243	308	252	746	177	303
23	292	181	420	441	365	508	230	295	230	645	169	532
24	276	178	392	425	572	482	261	268	215	562	193	975
25	249	178	427	564	766	480	363	261	208	1450	666	1290
26	241	178	431	665	655	423	414	251	201	1120	404	1010
27	241	170	405	560	588	375	356	230	192	904	315	838
28	249	165	339	509	538	347	315	214	250	738	247	701
29	249	165	262	505	---	334	296	200	431	624	216	606
30	249	163	244	578	---	378	281	198	278	563	221	544
31	249	---	234	529	---	365	---	244	---	521	223	---
TOTAL	8286	5783	12769	13038	11643	11972	10353	10448	10359	20417	8944	12229
MEAN	267	193	412	421	416	386	345	337	345	659	289	408
MAX	444	376	690	665	766	1000	593	573	662	2070	666	1290
MIN	198	143	160	187	259	235	230	198	192	150	169	187

CAL YR 1974 TOTAL 109586 MEAN 300 MAX 775 MIN 70
WTR YR 1975 TOTAL 136241 MEAN 373 MAX 2070 MIN 143

PEAK DISCHARGE (BASE, 1,000 CFS)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
3-20	0030	4.42	1,480	7-25	0800	4.98	1,850
7-14	1015	6.15	3,030	8-25	0330	3.71	1,060
7-20	2330	4.87	1,760	9-24	2115	4.55	1,560

01460500 Delaware and Raritan Canal at Kingston, N. J.

LOCATION.--Lat 40°22'24", long 74°37'08", Middlesex County, on right bank at canal lock at Kingston, 250 ft (76 m) upstream from new bridge on State Highway 27.

PERIOD OF RECORD.--March 1947 to current year.

GAGE.--Two water-stage recorders and concrete control. Datum of gage is 40.00 ft (12.192 m) above mean sea level.

REMARKS.--Records excellent except those for July 14, 15 and Sept. 27, which are fair. The canal diverts water from Delaware River at Raven Rock and discharges into Raritan River at New Brunswick. Some water wasted to the Millstone River 500 ft (152 m) above station.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	101	95	99	101	99	101	97	102	90	93	86	90
2	100	95	106	102	100	102	98	102	93	92	85	89
3	97	95	111	102	98	102	100	97	91	93	85	86
4	97	95	108	101	100	86	99	101	88	95	84	85
5	96	95	107	100	100	71	96	96	87	95	96	86
6	95	96	106	99	99	64	88	85	103	95	97	88
7	96	96	105	103	101	63	84	99	100	95	93	88
8	96	97	107	104	102	65	82	107	97	92	93	88
9	96	97	113	106	102	85	85	104	96	85	89	89
10	97	97	111	104	101	103	93	103	93	88	88	90
11	97	97	109	103	100	108	100	103	91	89	88	88
12	97	98	106	102	100	109	100	103	96	91	89	85
13	97	102	103	106	97	108	100	108	100	96	90	85
14	97	102	102	107	95	108	99	111	102	68	90	85
15	96	99	102	103	94	103	99	102	99	57	90	86
16	102	97	112	102	95	75	100	103	97	90	92	87
17	100	96	117	102	96	70	100	101	96	84	92	87
18	98	94	112	104	102	64	99	100	96	84	88	91
19	97	95	106	108	103	63	99	99	94	83	87	98
20	96	97	107	103	102	74	99	98	99	83	88	101
21	96	99	108	101	100	89	100	97	97	84	90	101
22	96	99	107	99	99	100	100	95	96	83	91	93
23	97	98	106	99	100	98	99	88	94	82	91	91
24	97	97	105	99	106	94	100	84	94	77	91	92
25	97	97	105	101	105	92	104	89	94	82	90	91
26	96	97	105	101	101	94	111	92	94	84	89	92
27	96	90	103	102	100	96	108	93	93	85	90	92
28	97	95	103	102	100	97	104	85	90	86	90	94
29	96	100	103	104	---	98	102	79	91	85	90	95
30	96	100	103	101	---	98	102	77	91	85	90	93
31	95	---	100	99	---	98	---	81	---	85	90	---
TOTAL	3007	2907	3297	3170	2797	2778	2947	2984	2842	2666	2782	2706
MEAN	97.0	96.9	106	102	99.9	89.6	98.2	96.3	94.7	86.0	89.7	90.2
MAX	102	102	117	108	106	109	111	111	103	96	97	101
MIN	95	90	99	99	94	63	82	77	87	57	84	85

CAL YR 1974 TOTAL 34990 MEAN 95.9 MAX 117 MIN 57
WTR YR 1975 TOTAL 34883 MEAN 95.6 MAX 117 MIN 57

01463500 Delaware River at Trenton, N. J.

LOCATION.--Lat 40°13'18", long 74°46'42", Mercer County, on left bank 450 ft (137 m) upstream from Calhoun Street Bridge at Trenton, 0.5 mi (0.8 km) upstream from Assunpink Creek, and at mile 134.5 (216.4 km).

DRAINAGE AREA.--6,780 mi² (17,560 km²).

PERIOD OF RECORD.--October 1912 to current year. Prior to February 1913 monthly discharge only, published in WSP 1302. Gage-height records collected in this vicinity since 1904 are contained in reports of National Weather Service.

GAGE.--Water-stage recorder. Datum of gage is at mean sea level. Prior to Sept. 30, 1965, at datum 7.77 ft (2.368 m) higher. Feb. 24, 1913, to Oct. 2, 1928, nonrecording gage on downstream side of highway bridge at site 500 ft (152 m) downstream.

AVERAGE DISCHARGE.--63 years, 11,630 ft³/s (329.4 m³/s), unadjusted.

EXTREMES.--Current year: Maximum discharge, 94,600 ft³/s (2,680 m³/s) Feb. 26 (elevation 17.35 ft or 5.288 m); minimum, 3,940 ft³/s (112 m³/s) Sept. 9, 10, elevation, 8.35 ft (2.545 m). Flow in Delaware and Raritan Canal not included.

Period of record: Maximum discharge, 329,000 ft³/s (9,320 m³/s) Aug. 20, 1955 (elevation 28.60 ft or 8.717 m, from high-water mark in gage house) from rating curve extended above 230,000 ft³/s (6,510 m³/s); minimum, 1,180 ft³/s (33.4 m³/s) Oct. 31, 1963, elevation, 7.26 ft (2.213 m). Flow in Trenton power race and Delaware and Raritan Canal not included.

Flood of Oct. 11, 1903, reached an elevation of about 28.5 ft (8.69 m) above mean sea level, discharge estimated, 295,000 ft³/s (8,350 m³/s). Maximum elevation since 1903, 30.6 ft (9.33 m) above mean sea level, Mar. 8, 1904, from floodmark (ice jam).

REMARKS.--Records excellent. Diurnal fluctuation at medium and low flow caused by powerplants on tributary streams. Flow regulated by Lakes Wallenpaupack and Hopatcong, and by Pepacton, Cannonsville, Swinging Bridge, Toronto, Cliff Lake, Neversink, and Wild Creek Reservoirs (see Delaware River Basin, reservoirs in) and smaller reservoirs. Diversion from Pepacton, Cannonsville, and Neversink Reservoirs and to Delaware and Raritan Canal (see Delaware River Basin, diversions). Water diverted just above station by borough of Morrisville, Pa., and city of Trenton for municipal supply (see Delaware River Basin, diversions). Records of water quality for current year are published in Section 2 of this report.

REVISIONS (WATER YEARS).--WSP 951: Drainage area. WSP 1302: 1913-20. WSP 1382: 1924, 1928.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	19900	5160	8160	10800	22800	38700	20400	10300	13500	11100	8870	9890
2	17500	6030	10400	11200	20200	32100	19100	10000	10900	9630	8140	9550
3	14500	6890	11700	10300	18300	25700	20000	10300	9640	9210	7240	7310
4	12300	6010	11900	9930	16700	23000	37100	11600	8720	9100	6540	6390
5	10000	5690	11200	9090	16000	19800	44800	16400	9140	7740	8020	5830
6	9730	5630	10100	8200	15300	17800	37000	19100	16500	6220	8420	5500
7	8850	5180	8710	8680	15000	16700	29800	20000	25800	5980	9040	5190
8	8150	5920	12100	9580	14900	15900	25900	23000	20500	5540	9030	4540
9	7600	6280	49700	14400	13500	15000	23200	24600	22400	5580	9610	3980
10	7070	5950	69000	20600	11600	13600	20600	21400	17400	5540	8180	4240
11	6720	5310	47700	24900	9780	12300	18700	18800	15700	5830	6810	4840
12	7030	5360	35700	25800	10000	13000	17400	17000	17100	5580	6090	4740
13	6900	8160	28200	35900	9780	13700	16000	17900	23700	21800	6200	6760
14	6820	12800	23100	36200	9780	13500	14900	24700	25400	30100	5850	5770
15	6090	18000	20100	29100	10100	13600	14100	26800	22600	28600	5470	4660
16	8030	15200	22600	24200	9910	13500	13500	25900	18000	22900	5500	4880
17	11300	13200	24900	21000	9840	12800	12700	24400	18300	18100	6160	4730
18	9810	11900	23400	19900	10800	11700	12300	22500	16300	15500	5740	4650
19	10300	11100	21200	20100	14300	15400	11900	19700	14200	12700	5600	4560
20	9480	10500	18600	20600	15300	36400	11700	19100	13700	12400	5440	4790
21	7510	10400	16900	17600	13800	52600	11200	17000	12500	19800	4950	5740
22	6660	11900	15400	15700	12600	49100	11100	14800	11200	15900	4770	5570
23	6690	14400	13600	14100	12700	37700	11000	14600	8980	15900	4770	7800
24	6700	12000	12600	13900	19400	30900	10800	14900	8120	13300	4830	17700
25	6110	10800	12800	14800	65600	32100	12600	14400	8330	20800	6570	39300
26	5940	10600	13300	20000	88000	32300	16100	13000	7150	23800	8320	41600
27	5800	10500	12700	21300	65800	29700	14600	12000	6630	18500	8050	46600
28	5350	9840	12700	22000	49600	25900	12500	10700	7020	15400	6750	36100
29	5260	9090	11700	21500	---	22000	11500	10200	12400	12400	5790	29000
30	5310	8620	10500	22500	---	20200	11100	8720	13100	11500	5180	22900
31	5370	---	9990	23900	---	20600	---	9240	---	10100	5520	---
TOTAL	265660	277620	610660	577780	602190	727300	543600	522060	442930	426350	207510	365110
MEAN	8570	9254	19700	18640	21510	23460	18120	16840	14760	13750	6694	12170
MAX	19900	18000	69000	36200	88000	52600	44800	26800	25800	30100	9610	46600
MIN	5260	5160	8160	8200	9780	11700	10800	8720	6630	5540	4770	3980

CAL YR 1974 TOTAL 4962030 MEAN 13590 MAX 69000 MIN 2990
WTR YR 1975 TOTAL 5568770 MEAN 15260 MAX 88000 MIN 3980

PEAK DISCHARGE (BASE, 50,000 CFS)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
12-10	0645	15.94	74,100	3-21	1915	14.84	59,400
2-26	0300	17.35	94,600	9-27	0115	14.43	54,100

DELAWARE RIVER BASIN

01463620 Assunpink Creek near Clarksville, N. J.

LOCATION.--Lat 40°16'11", long 74°40'20", Mercer County, on left bank 200 ft (61 m) upstream from bridge on Quaker Bridge Road, 1.9 mi (3.1 km) south of Clarksville, 2.0 mi (3.2 km) upstream from Shipetaukin Creek, and 7.6 mi (12.2 km) upstream of mouth.

DRAINAGE AREA.--34.3 mi² (88.8 km²).

PERIOD OF RECORD.--October 1972 to current year. Occasional low-flow measurements water years 1963-67.

GAGE.--Water-stage recorder. Datum of gage is 49.28 ft (15.021 m) above mean sea level.

EXTREMES.--Current year: Maximum discharge, 1,050 ft³/s (29.7 m³/s) July 21 (gage height, 9.36 ft or 2.853 m, from crest-stage gage); minimum daily, 16 ft³/s (0.45 m³/s) Nov. 11, 12.

Period of record: Maximum discharge, 1,050 ft³/s (29.7 m³/s) July 21, 1975 (gage height, 9.36 ft or 2.853 m, from crest-stage gage); minimum daily, 9.0 ft³/s (0.25 m³/s) Aug. 4, 1974.

Flood of Aug. 28, 1971, reached a stage of 10.9 ft (3.32 m), discharge, 1,500 ft³/s (42.5 m³/s) revised.

REMARKS.--Records fair. Some regulation from dams and ponds upstream.

REVISIONS (WATER YEARS).--WRD-NJ 1974: 1973(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	32	20	17	40	66	84	61	54	55	36	51	19
2	26	19	50	40	58	75	57	63	82	32	43	18
3	24	18	110	50	52	67	63	59	59	29	39	19
4	22	17	80	43	45	62	116	59	48	29	35	20
5	20	21	59	41	47	64	113	121	43	28	45	21
6	18	19	50	39	50	54	91	109	75	27	64	20
7	17	20	43	42	62	49	73	92	97	26	72	21
8	18	19	46	50	60	49	64	76	84	26	44	19
9	20	18	80	69	58	49	58	63	79	24	30	18
10	19	17	170	96	54	48	53	53	49	23	27	18
11	21	16	101	90	50	48	49	49	43	23	28	17
12	20	16	54	81	45	48	47	44	59	22	29	17
13	19	20	47	77	43	59	43	54	170	38	26	27
14	22	55	44	126	40	66	41	130	193	311	25	24
15	25	45	41	119	39	84	43	127	145	295	23	23
16	27	29	54	86	38	92	41	104	101	208	26	23
17	140	23	213	67	43	84	43	108	82	178	30	23
18	95	21	223	63	59	75	43	91	76	163	30	23
19	80	19	123	96	75	64	43	78	73	121	28	25
20	68	20	100	142	95	114	43	63	87	94	27	25
21	55	21	75	130	80	127	42	57	72	818	28	26
22	40	23	60	100	70	106	42	50	57	645	26	29
23	33	23	56	80	60	90	43	44	43	281	24	33
24	28	21	52	72	50	86	44	43	38	191	22	135
25	25	20	46	120	170	85	66	38	35	163	23	300
26	23	19	45	110	190	87	130	36	30	147	24	440
27	21	21	43	90	150	90	139	35	21	127	24	782
28	20	20	41	80	100	95	104	34	28	108	23	380
29	19	19	40	95	---	88	85	31	32	79	21	206
30	19	18	40	86	---	59	73	29	34	64	20	156
31	19	---	40	74	---	61	---	31	---	57	20	---
TOTAL	1035	657	2193	2494	1949	2309	1953	2025	2090	4413	977	2907
MEAN	33.4	21.9	70.7	80.5	69.6	74.5	65.1	65.3	69.7	142	31.5	96.9
MAX	140	55	223	142	190	127	139	130	193	818	72	782
MIN	17	16	17	39	38	48	41	29	21	22	20	17
CFSM	.97	.64	2.06	2.35	2.03	2.17	1.90	1.90	2.03	4.14	.92	2.82
IN.	1.12	.71	2.38	2.70	2.11	2.50	2.12	2.20	2.27	4.79	1.06	3.15

CAL YR 1974 TOTAL 16923.0 MEAN 46.4 MAX 268 MIN 9.0 CFSM 1.35 IN 18.35
WTR YR 1975 TOTAL 25002.0 MEAN 68.5 MAX 818 MIN 16 CFSM 2.00 IN 27.12

NOTE.--Doubtful or no gage-height record Oct. 1 to Sept. 30.

PEAK DISCHARGE (BASE, 200 CFS)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
12-17	1945	6.20	305	7-21	1500	9.36	1,050
7-14	1345	7.49	572	9-27	1145	9.03	958

01464000 Assunpink Creek at Trenton, N. J.

LOCATION.--Lat 40°13'27", long 74°44'58", Mercer County, on left bank at Chambers Street Bridge in Trenton, 1.5 mi (2.4 km) upstream from mouth.

DRAINAGE AREA.--89.4 mi² (231.5 km²).

PERIOD OF RECORD.--August 1923 to current year.

GAGE.--Water-stage recorder. Concrete control since July 10, 1932. Datum of gage is 24.76 ft (7.547 m) above mean sea level (New Jersey Geological Survey bench mark).

AVERAGE DISCHARGE.--52 years, 126 ft³/s (3.568 m³/s), unadjusted.

EXTREMES.--Current year: Maximum discharge, 5,450 ft³/s (154 m³/s) July 21 (gage height, 14.61 ft or 4.453 m, from high-water mark in gage house); minimum, 46 ft³/s (1.30 m³/s) Nov. 11 (gage height, 2.67 ft or 0.814 m).
Period of record: Maximum discharge, 5,450 ft³/s (154 m³/s) July 21, 1975 (gage height, 14.61 ft or 4.453 m, from high-water mark in gage house); minimum, 1.0 ft³/s (0.028 m³/s) Aug. 21, Oct. 22, 1931 (gage height, 0.25 ft or 0.076 m); minimum daily, 4.0 ft³/s (0.11 m³/s) July 21, Aug. 8, Sept. 2, 1929.

REMARKS.--Records good. Records include water diverted from outside the basin since February 1954 for municipal supply which returns to Assunpink Creek through Ewing-Lawrence Sewerage Authority treatment plant, 2.4 mi (3.9 km) above station (records given herein). In addition there is an average inflow of about 2.0 ft³/s (0.057 m³/s) from industrial use of water that originates outside the basin. Some diversion for irrigation in headwater area during growing season. Records of water quality for the current year are published in Section 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	83	61	83	166	174	190	162	158	570	84	144	60
2	75	58	394	140	160	170	148	150	258	79	128	62
3	70	68	231	124	150	158	350	136	166	120	115	55
4	63	62	178	115	140	146	301	327	134	90	110	52
5	57	65	144	106	174	144	222	429	176	69	119	50
6	58	66	120	104	219	132	186	273	607	80	106	57
7	61	62	104	266	231	124	166	228	391	75	110	54
8	68	61	403	178	194	122	150	188	213	69	101	54
9	63	56	313	450	166	110	138	162	168	79	92	54
10	69	52	228	293	146	111	128	148	140	79	83	51
11	66	55	188	245	136	115	172	136	122	69	86	51
12	65	88	158	217	132	172	115	132	432	65	86	104
13	75	108	134	394	126	180	106	462	716	477	87	96
14	87	87	119	397	120	233	104	549	438	1710	86	66
15	96	79	106	271	115	268	113	307	287	2030	77	61
16	453	77	733	213	124	211	130	385	217	919	162	56
17	290	65	656	178	170	180	113	286	194	525	103	56
18	208	62	490	310	307	162	106	217	168	460	96	57
19	162	69	393	394	273	377	104	188	168	240	86	86
20	134	72	236	489	228	709	100	166	194	499	132	63
21	120	77	188	333	190	359	96	148	144	4050	87	156
22	104	76	180	266	164	260	96	136	117	1980	82	77
23	86	69	144	222	304	248	96	122	108	754	73	486
24	79	62	134	208	588	258	160	110	108	453	66	971
25	76	68	134	319	588	282	408	95	98	492	77	1250
26	69	68	126	377	480	219	495	92	95	348	77	1270
27	62	65	117	271	279	188	282	92	79	258	77	1450
28	62	58	110	219	208	168	211	87	86	222	69	887
29	62	54	103	273	---	162	178	79	144	198	66	504
30	65	55	101	228	---	217	156	144	92	176	63	362
31	65	---	104	196	---	188	---	113	---	158	63	---
TOTAL	3145	2089	6712	7960	6206	6555	5242	6241	6830	16907	2909	8658
MEAN	101	69.6	217	257	222	211	175	201	228	545	93.8	289
MAX	453	108	733	489	588	709	495	549	716	4050	162	1450
MIN	57	52	83	104	115	110	96	79	79	65	63	50
(†)	12.4	10.9	12.9	16.9	15.9	15.8	14.5	15.5	15.5	12.1	12.2	11.1

CAL YR 1974 TOTAL 52042 MEAN 143 MAX 733 MIN 38 † 13.5
WTR YR 1975 TOTAL 79454 MEAN 218 MAX 4050 MIN 50 † 13.8

PEAK DISCHARGE (BASE, 900 CFS)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
12-16	1915	7.62	1,550	7-14	1915	11.71	3,180
3-19	2315	6.65	1,180	7-21	about 0900	14.61	5,450
6-01	0730	6.07	974	9-26	2100	8.80	2,020
6-12	2330	5.90	915				

† Inflow from outside basin, 2.4 mi (3.9 m) upstream of station through plant of Ewing-Lawrence Sewerage Authority, in cubic feet per second.

01464500 Crosswicks Creek at Extonville, N. J.

LOCATION.--Lat 40°08'15", long 74°36'02", Mercer County, on right bank upstream from highway bridge at Extonville, 0.5 mi (0.8 km) upstream from Pleasant Run, and 0.7 mi (1.1 km) downstream from Mercer-Monmouth County line.

DRAINAGE AREA.--83.6 mi² (216.5 km²).

PERIOD OF RECORD.--August 1940 to October 1951, October 1952 to current year.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 24.94 ft (7.602 m) above mean sea level.

AVERAGE DISCHARGE.--34 years, (1940-51, 1952-75) 133 ft³/s (3.767 m³/s), 21.60 in/yr (549 mm/yr).

EXTREMES.--Current year: Maximum discharge, 1,610 ft³/s (45.6 m³/s) Sept. 26 (gage height, 9.27 ft or 2.825 m); minimum, 40 ft³/s (1.13 m³/s) Sept. 10, 11 (gage height, 2.44 ft or 0.744 m).
Period of record: Maximum discharge, 5,180 ft³/s (147 m³/s) Aug. 28, 1971 (gage height, 13.93 ft or 4.246 m); minimum, 13.1 ft³/s (0.37 m³/s) Feb. 14, 1943 (result of freezeup); minimum daily, 16 ft³/s (0.45 m³/s) Aug. 30 to Sept. 3, Sept. 12, 1966.

REMARKS.--Records good. Flow regulated occasionally by lakes above station. Records of water quality for the current year are published in Section 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	75	63	59	154	120	129	126	117	675	88	62	44
2	63	63	364	168	117	120	117	120	270	78	61	48
3	55	61	564	130	113	113	197	119	170	73	57	47
4	52	61	236	125	106	106	404	145	135	111	55	42
5	52	61	143	118	120	103	194	413	190	84	64	45
6	50	69	113	105	215	103	140	320	700	73	62	42
7	49	71	98	173	212	103	126	180	400	82	101	44
8	47	63	221	194	146	103	116	143	230	90	81	44
9	45	59	508	388	129	96	109	125	170	70	68	42
10	45	57	356	686	117	93	106	114	140	71	62	41
11	44	57	166	318	109	100	105	109	120	93	59	40
12	44	57	120	302	109	109	101	103	350	90	59	44
13	45	118	110	326	120	162	100	157	790	104	53	111
14	47	113	103	722	103	152	98	362	460	508	55	73
15	45	81	98	424	100	281	98	248	300	880	53	53
16	232	73	316	207	106	176	125	272	230	1310	126	48
17	594	67	1310	159	137	138	117	476	195	626	220	52
18	314	65	852	173	226	125	108	236	160	286	103	50
19	145	63	384	492	202	135	105	151	155	162	77	50
20	110	63	289	376	149	332	103	127	220	133	68	55
21	93	71	157	206	129	226	96	116	145	582	64	53
22	81	71	133	175	119	146	89	117	120	470	57	50
23	75	67	118	151	153	138	88	103	105	160	55	98
24	71	63	110	141	338	134	96	96	98	123	52	476
25	67	65	115	200	548	275	380	89	94	106	57	1000
26	67	67	125	394	403	211	685	91	87	113	59	1520
27	67	65	113	250	193	144	490	90	76	96	52	1110
28	61	61	105	153	143	127	205	86	95	84	47	838
29	63	61	100	143	---	120	144	83	125	77	44	328
30	61	59	98	138	---	134	126	100	108	70	44	180
31	63	---	96	123	---	152	---	140	---	66	44	---
TOTAL	2922	2035	7688	7814	4782	4586	5094	5156	7113	7039	2129	6668
MEAN	94.3	67.8	248	252	171	148	170	166	237	227	68.7	222
MAX	594	118	1310	722	548	332	685	476	790	1310	220	1520
MIN	44	57	59	105	100	93	88	83	76	66	44	40
CFSM	1.13	.81	2.97	3.01	2.05	1.77	2.03	1.99	2.83	2.72	.82	2.66
IN.	1.30	.91	3.42	3.48	2.13	2.04	2.27	2.29	3.17	3.13	.95	2.97

CAL YR 1974 TOTAL 51497 MEAN 141 MAX 1310 MIN 33 CFSM 1.69 IN 22.91
WTR YR 1975 TOTAL 63026 MEAN 173 MAX 1520 MIN 40 CFSM 2.07 IN 28.04

PEAK DISCHARGE (BASE, 750 CFS)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
12-17	1400	9.11	1,550	7-16	0800	9.05	1,520
4-26	2000	7.02	786	9-26	0500	9.27	1,610

NOTE.--No gage-height record May 27 to July 1.

01465850 South Branch Rancocas Creek at Vincentown, N. J.

LOCATION.--Lat 39°56'22", long 74°45'50", Burlington County, on left bank 150 ft (46 m) downstream from highway bridge on Lumberton-Vincentown road, 0.8 mi (1.3 km) west of Vincentown, 2.9 mi (4.7 km) southeast of Lumberton, and 3.1 mi (5.0 km) upstream from Southwest Branch.

DRAINAGE AREA.--53.3 mi² (138.0 km²).

PERIOD OF RECORD.--July 1961 to September 1975 (discontinued).

GAGE.--Water-stage recorder. Datum of gage is 13.17 ft (4.014 m) above mean sea level. Prior to Oct. 30, 1961, at site 150 ft (46 m) upstream at same datum.

AVERAGE DISCHARGE.--14 years, 95.7 ft³/s (2.710 m³/s), 24.38 in/yr (619 mm/yr).

EXTREMES.--Current year: Maximum discharge, 966 ft³/s (27.4 m³/s) Sept. 25 (gage height, 7.19 ft or 2.192 m); minimum, 9.4 ft³/s (0.27 m³/s) Aug. 4 (gage height, 0.17 ft or 0.052 m).
Period of record: Maximum discharge, 1,110 ft³/s (31.4 m³/s) Nov. 9, 1972 (gage height, 7.56 ft or 2.304 m); minimum, 2.8 ft³/s (0.079 m³/s) July 17, 18, Aug. 9, 1966.

REMARKS.--Records fair. Occasional regulation by lakes and ponds above station. Records of water quality for the current year are published in Section 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	46	50	53	120	116	126	117	124	59	52	46	31
2	35	44	179	125	112	115	106	121	64	43	29	31
3	37	45	203	110	106	106	149	115	60	36	17	30
4	37	52	146	98	99	96	191	122	59	43	20	28
5	29	48	123	90	112	98	147	174	59	46	48	28
6	59	51	113	88	159	84	127	162	135	51	45	27
7	51	49	101	85	155	89	116	148	251	62	68	28
8	41	52	169	116	133	79	112	143	188	58	80	27
9	30	43	305	209	121	74	105	130	151	54	93	25
10	34	45	209	211	109	76	94	116	134	52	103	23
11	34	54	160	175	102	80	89	112	112	60	91	20
12	33	53	136	187	99	100	85	106	110	57	76	22
13	29	72	121	223	97	140	81	120	261	200	66	42
14	30	71	109	339	91	125	78	176	254	597	58	38
15	35	71	100	218	86	190	78	149	166	645	52	36
16	130	67	279	176	90	150	92	206	131	570	137	57
17	236	55	642	156	111	120	95	233	148	297	251	36
18	142	47	347	150	145	110	90	174	129	216	186	34
19	108	47	244	230	141	120	88	152	103	169	148	34
20	73	47	205	237	124	210	90	134	91	133	124	31
21	53	48	177	207	112	190	82	127	80	138	101	29
22	55	50	156	177	103	150	77	135	70	122	79	29
23	63	57	138	162	134	135	71	121	62	93	68	50
24	86	55	120	153	211	140	68	113	50	83	52	216
25	79	50	108	184	273	205	120	103	41	76	44	666
26	88	48	111	251	198	169	306	92	51	70	51	823
27	74	45	97	185	160	132	234	93	55	64	47	837
28	66	39	88	159	144	117	174	74	58	60	41	651
29	69	37	82	147	---	108	163	66	62	56	38	440
30	61	40	91	138	---	121	142	62	58	51	34	293
31	55	---	80	125	---	130	---	60	---	44	31	---
TOTAL	2005	1532	5182	5221	3643	3863	3567	3963	3251	4305	2324	4662
MEAN	64.7	51.1	167	168	130	125	119	128	108	139	75.0	155
MAX	236	72	642	339	273	210	306	233	261	645	251	837
MIN	29	37	53	85	86	74	68	60	41	36	17	20
CFSM	1.21	.96	3.13	3.15	2.44	2.35	2.23	2.40	2.03	2.61	1.41	2.91
IN.	1.40	1.07	3.62	3.64	2.54	2.70	2.49	2.77	2.27	3.00	1.62	3.25

CAL YR 1974 TOTAL 35295 MEAN 96.7 MAX 642 MIN 16 CFSM 1.81 IN 24.63
WTR YR 1975 TOTAL 43518 MEAN 119 MAX 837 MIN 17 CFSM 2.23 IN 30.37

PEAK DISCHARGE (BASE, 550 CFS)

DATE	TIME	G.H.	DISCHARGE
12-17	0100	6.86	847
7-15	2000	6.64	770
9-25	2300	7.19	966

01466500 McDonalds Branch in Lebanon State Forest, N. J.
(hydrologic bench-mark station)

LOCATION.--Lat 39°53'05", long 74°30'20", Burlington County, on right bank in Lebanon State Forest, 25 ft (7.6 m) upstream from Butterworth Road Bridge, 3.4 mi (5.5 km) upstream from confluence with Cooper Branch, and 7.0 mi (11.3 km) southeast of Browns Mills.

DRAINAGE AREA.--2.31 mi^2 (5.98 km^2).

PERIOD OF RECORD.--October 1953 to current year. Prior to October 1962, published as "McDonald Branch in Lebanon State Forest".

GAGE.--Water-stage recorder and concrete control. Datum of gage is 117.73 ft (35.884 m) above mean sea level (New Jersey Geological Survey bench mark).

AVERAGE DISCHARGE.--22 years, 2.35 ft^3/s (0.0660 m^3/s), 13.70 in/yr (348 mm/yr).

EXTREMES.--Current year: Maximum discharge, 15 ft^3/s (0.42 m^3/s) Aug. 16 (gage height, 1.91 ft or 0.582 m); minimum, 1.1 ft^3/s (0.031 m^3/s) Nov. 19, 20 (gage height, 1.10 ft or 0.335 m).
Period of record: Maximum discharge, 35 ft^3/s (0.99 m^3/s) Aug. 25, 1958 (gage height, 2.33 ft or 0.710 m); minimum daily, 0.8 ft^3/s (0.023 m^3/s) July 6, 19, 1967.

REMARKS.--Records good. Gage-height record is collected above concrete control and discharge record, which includes leakage around control, is at site 785 ft (239 m) downstream. Records of water quality for the current year are published in Section 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.6	1.3	1.3	2.7	2.9	3.0	3.0	2.8	3.4	2.4	2.0	2.0
2	1.6	1.2	2.9	2.6	2.9	3.0	2.9	2.8	3.4	2.4	2.0	2.0
3	1.5	1.2	2.7	2.6	2.8	2.8	3.7	2.7	3.2	2.6	2.0	2.0
4	1.5	1.2	2.9	2.6	2.8	2.7	3.8	3.3	3.2	3.2	2.0	2.0
5	1.4	1.2	2.5	2.5	3.1	2.7	3.5	4.3	3.2	2.7	2.4	1.9
6	1.4	1.3	2.3	2.4	3.4	2.6	3.2	3.8	6.4	2.6	2.6	1.8
7	1.4	1.2	2.2	2.8	3.4	2.6	3.0	3.4	5.6	2.5	2.9	1.8
8	1.3	1.2	2.8	2.6	3.3	2.6	2.9	3.1	4.4	2.4	2.4	1.8
9	1.3	1.2	3.1	4.0	3.1	2.6	2.9	3.0	3.8	2.4	2.2	1.8
10	1.3	1.2	3.2	4.1	2.9	2.6	2.8	2.9	3.4	2.4	2.0	1.7
11	1.3	1.1	2.6	3.5	2.8	2.6	2.8	2.8	3.3	2.6	2.2	1.7
12	1.3	1.2	2.4	3.3	2.8	2.7	2.7	2.7	4.4	2.5	2.5	1.8
13	1.3	1.5	2.3	4.3	2.7	3.0	2.7	4.1	6.0	3.5	2.0	2.0
14	1.3	1.3	2.2	5.2	2.7	3.1	2.7	8.0	4.9	4.0	2.0	1.9
15	1.3	1.2	2.2	4.0	2.7	3.5	2.8	5.6	4.0	4.7	1.9	1.8
16	2.4	1.2	4.3	3.3	2.7	3.4	3.0	7.0	3.6	4.1	4.5	1.7
17	2.4	1.2	9.3	3.1	2.9	3.1	2.8	6.6	3.4	3.2	4.4	1.7
18	2.0	1.2	5.0	3.2	3.3	2.8	2.7	4.9	3.3	2.9	3.2	1.6
19	1.7	1.1	3.7	3.7	3.2	3.0	2.7	4.3	3.1	2.6	2.7	1.7
20	1.6	1.2	3.2	4.3	3.0	3.7	2.7	4.0	3.0	2.5	2.6	1.6
21	1.6	1.3	3.0	3.8	2.8	3.5	2.6	4.4	2.9	2.9	2.4	1.6
22	1.5	1.3	2.8	3.3	2.7	3.2	2.6	4.4	2.8	2.5	2.4	1.6
23	1.5	1.3	2.7	3.2	3.2	3.0	3.6	4.0	2.8	2.4	2.2	2.5
24	1.4	1.3	2.7	3.1	3.8	3.1	2.6	3.7	2.7	2.2	2.2	4.4
25	1.4	1.2	2.7	3.8	4.4	3.8	3.3	3.5	2.6	2.8	2.2	8.0
26	1.4	1.3	2.6	4.6	3.8	3.7	4.9	3.5	2.6	3.0	2.2	7.2
27	1.3	1.2	2.6	3.8	3.3	3.2	4.1	3.4	2.6	2.4	2.1	6.6
28	1.3	1.2	2.6	3.4	3.1	3.0	3.3	3.3	2.6	2.3	2.1	4.4
29	1.3	1.2	2.5	3.2	---	2.9	3.1	3.2	2.5	2.2	2.0	3.4
30	1.3	1.2	2.5	3.1	---	3.1	2.9	3.1	2.5	2.1	2.0	3.1
31	1.3	---	2.5	3.0	---	3.1	---	3.1	---	2.0	2.0	---
TOTAL	46.2	36.9	92.3	104.9	86.5	93.7	92.3	121.7	105.6	85.0	74.3	79.1
MEAN	1.49	1.23	2.98	3.38	3.09	3.02	3.08	3.93	3.52	2.74	2.40	2.64
MAX	2.4	1.5	9.3	5.2	4.4	3.8	4.9	8.0	6.4	4.7	4.5	8.0
MIN	1.3	1.1	1.3	2.4	2.7	2.6	2.6	2.7	2.5	2.0	1.9	1.6
CFSM	.65	.53	1.29	1.46	1.34	1.31	1.33	1.70	1.52	1.19	1.04	1.14
IN.	.74	.59	1.49	1.69	1.39	1.51	1.49	1.96	1.70	1.37	1.20	1.27

CAL YR 1974 TOTAL 795.2 MEAN 2.18 MAX 9.3 MIN 1.1 CFSM .94 IN 12.81
WTR YR 1975 TOTAL 1018.5 MEAN 2.79 MAX 9.3 MIN 1.1 CFSM 1.21 IN 16.40

PEAK DISCHARGE (BASE, 7.0 CFS)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
12-17	0500	1.83	13	8-16	1000	1.91	15
5-13	2315	1.75	10	9-25	0945	1.86	14
6-06	0315	1.62	7.4				

01467000 North Branch Rancocas Creek at Pemberton, N. J.

LOCATION.--Lat 39°58'10", long 74°41'05", Burlington County, on right bank at downstream side of highway bridge at Pemberton, 12 mi (19 km) upstream from confluence with South Branch.

DRAINAGE AREA.--111 mi² (287 km²).

PERIOD OF RECORD.--September 1921 to current year.

GAGE.--Water-stage recorder above concrete dam. Datum of gage is 31.19 ft (9.507 m) above mean sea level. Prior to June 9, 1923, nonrecording gage and June 9, 1923 to Aug. 9, 1951, water-stage recorder at site 600 ft (183 m) downstream at datum 6.54 ft (1.993 m) lower.

AVERAGE DISCHARGE.--54 years, 171 ft³/s (4.843 m³/s), 20.92 in/yr (531 mm/yr).

EXTREMES.--Current year: Maximum discharge, 1,050 ft³/s (29.7 m³/s) Sept. 26 (gage height, 3.09 ft or 0.942 m); minimum, 62 ft³/s (1.76 m³/s).
Period of record: Maximum discharge, 1,730 ft³/s (49.0 m³/s) Aug. 31, 1939 (gage height, 4.23 ft or 1.289 m, from high-water mark at former site, present datum); minimum daily, 9.0 ft³/s (0.25 m³/s) Sept. 29, 1932.

REMARKS.--Records good. Flow regulated occasionally by operation of gate in dam and by ponds above station. Records of water quality for the current year are published in Section 2 of this report.

REVISIONS (WATER YEARS).--WSP 1302: 1922-23. WSP 1382: 1933.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	141	82	78	186	258	262	228	225	137	147	95	82
2	121	86	276	213	219	244	214	186	145	103	92	82
3	107	114	280	288	219	224	281	193	146	98	89	82
4	98	101	271	197	211	202	273	255	146	113	96	78
5	95	82	238	185	224	188	283	317	169	124	113	78
6	98	74	188	174	275	177	278	305	335	128	109	74
7	137	78	170	199	276	168	247	306	398	135	141	78
8	282	66	277	210	258	164	229	298	386	127	164	78
9	218	66	322	299	241	164	211	269	388	118	168	74
10	188	66	285	371	223	164	187	233	225	117	132	70
11	152	78	273	403	205	164	185	209	202	124	117	70
12	96	98	264	385	202	179	179	174	242	122	113	78
13	99	110	243	328	205	228	172	195	491	263	112	118
14	97	114	223	392	208	277	168	277	466	364	107	106
15	94	110	198	345	204	328	181	306	326	523	99	90
16	245	106	355	334	200	235	199	441	285	586	193	82
17	329	101	582	318	208	241	203	442	231	409	238	97
18	197	94	534	303	244	232	205	470	214	292	298	94
19	159	94	439	346	252	275	189	387	181	254	248	86
20	176	94	358	404	242	346	177	331	163	212	202	86
21	154	101	326	357	227	278	175	323	158	242	172	78
22	122	101	301	330	208	255	172	285	138	163	149	78
23	97	97	275	314	244	249	165	227	122	154	132	158
24	106	94	255	294	332	253	149	212	122	126	122	957
25	118	94	245	319	397	306	254	199	266	154	110	531
26	86	94	239	360	377	303	384	189	220	126	101	922
27	78	90	225	346	318	281	370	164	148	99	94	889
28	82	86	211	321	283	254	327	157	166	102	90	592
29	101	86	149	304	---	230	265	158	167	105	78	474
30	106	74	187	288	---	240	239	138	190	103	82	374
31	110	---	174	273	---	239	---	126	---	99	82	---
TOTAL	4209	2715	8485	9231	6947	7350	6809	7981	6877	5832	4090	6178
MEAN	136	90.5	274	298	248	237	227	257	229	188	132	206
MAX	329	114	582	404	397	346	384	470	491	586	298	922
MIN	78	66	78	174	200	164	165	126	122	98	78	70
CFSM	1.23	.82	2.47	2.68	2.23	2.14	2.05	2.32	2.06	1.69	1.19	1.86
IN.	1.41	.91	2.84	3.09	2.33	2.46	2.28	2.67	2.30	1.95	1.37	2.07

CAL YR 1974 TOTAL 64260 MEAN 176 MAX 582 MIN 62 CFSM 1.59 IN 21.54
WTR YR 1975 TOTAL 76704 MEAN 210 MAX 922 MIN 66 CFSM 1.89 IN 25.71

PEAK DISCHARGE (BASE, 600 CFS)

DATE	TIME	G.H.	DISCHARGE
7-16	0700	2.52	610
9-26	1715	3.09	1,050

NOTE.--Gate open Aug. 29.

01467081 South Branch Pennsauken Creek at Cherry Hill, N. J.

LOCATION.--Lat 39°56'30", long 74°00'05", Camden County, on left bank on downstream wingwall of bridge on Mill Road in Cherry Hill, 1.1 mi (1.8 km) south of Maple Shade and 3.8 mi (6.1 km) upstream from the confluence with the North Branch.

DRAINAGE AREA.--9.16 mi^2 (23.72 km^2).

PERIOD OF RECORD.--October 1967 to current year.

GAGE.--Water-stage recorder. Datum of gage is 8.12 ft (2.475 m) above mean sea level.

AVERAGE DISCHARGE.--8 years, 18.3 ft^3/s (0.518 m^3/s), 27.12 in/yr (689 mm/yr).

EXTREMES.--Current year: Maximum discharge, 505 ft^3/s (14.3 m^3/s) Sept. 24 (gage height, 8.65 ft or 2.637 m); minimum, 5.0 ft^3/s (0.14 m^3/s) Sept. 10, 11 (gage height, 1.75 ft or 0.533 m).
Period of record: Maximum discharge, 781 ft^3/s (22.1 m^3/s) Aug. 28, 1971 (gage height, 11.34 ft or 3.456 m); minimum, 2.6 ft^3/s (0.074 m^3/s) Oct. 6, 9, 10, 11, 1970 (gage height, 1.71 ft or 0.521 m).

REMARKS.--Records fair.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.8	7.2	11	22	7.3	7.4	13	14	24	8.9	6.4	6.0
2	7.0	7.6	48	13	7.0	7.0	12	12	13	7.8	6.4	6.4
3	7.4	7.8	8.4	6.0	6.4	6.6	80	11	10	8.3	6.2	7.6
4	7.6	8.0	5.8	5.8	6.4	6.6	25	50	9.8	8.6	40	6.2
5	7.6	8.0	5.2	5.4	34	6.5	15	27	24	7.2	23	6.2
6	7.6	8.6	5.2	5.2	32	6.5	13	17	84	7.2	12	6.2
7	7.8	7.6	5.2	34	16	7.2	12	17	15	10	8.6	6.0
8	7.6	8.6	78	7.2	7.6	7.8	12	12	9.8	7.4	7.0	6.0
9	8.0	10	20	61	7.5	8.0	11	10	10	7.2	6.6	5.8
10	7.6	11	8.1	10	6.6	11	10	9.8	11	10	6.4	5.6
11	7.6	11	7.0	11	6.6	9.8	9.5	9.5	9.2	12	22	5.8
12	7.6	17	6.5	8.2	6.7	24	9.5	10	90	7.2	36	35
13	7.8	22	6.3	64	6.6	19	8.9	52	79	255	8.3	22
14	8.3	8.9	7.8	22	6.4	52	8.9	21	17	156	8.0	6.6
15	8.6	8.6	6.3	8.0	7.0	34	15	12	11	113	6.8	6.2
16	91	8.3	150	7.6	13	15	16	78	9.8	24	149	6.2
17	22	8.0	58	6.6	20	13	10	20	9.5	14	20	6.4
18	9.2	8.0	14	42	29	11	9.2	14	8.9	11	11	6.0
19	8.0	7.2	10	36	19	129	10	12	21	9.8	8.6	9.2
20	7.8	7.0	9.0	20	7.4	132	9.2	11	25	10	11	6.6
21	7.6	8.3	8.1	9.2	7.2	22	8.6	37	8.3	70	7.6	6.2
22	8.6	7.4	8.1	8.8	6.7	18	8.3	44	7.2	13	7.2	7.4
23	12	7.0	7.8	8.3	52	17	8.3	14	7.0	9.2	6.8	131
24	11	7.0	7.6	8.0	47	44	22	11	38	8.3	7.0	267
25	11	7.2	13	35	25	40	88	9.5	35	10	7.6	290
26	12	7.4	9.3	26	16	17	107	9.2	17	8.9	6.6	188
27	14	6.8	7.8	13	11	13	18	8.9	9.2	7.4	6.4	55
28	13	6.8	7.3	7.3	7.8	12	13	8.3	42	7.2	6.2	20
29	7.0	6.8	6.5	7.6	---	12	12	7.8	46	7.0	6.2	15
30	7.0	6.8	6.8	6.8	---	32	11	20	13	7.2	6.2	13
31	7.2	---	5.4	7.2	---	15	---	13	---	6.4	6.0	---
TOTAL	363.3	261.9	557.5	532.2	425.2	755.4	605.4	602.0	713.7	849.2	477.1	1164.6
MEAN	11.7	8.73	18.0	17.2	15.2	24.4	20.2	19.4	23.8	27.4	15.4	38.8
MAX	91	22	150	64	52	132	107	78	90	255	149	290
MIN	6.8	6.8	5.2	5.2	6.4	6.5	8.3	7.8	7.0	6.4	6.0	5.6
CFSM	1.28	.95	1.97	1.88	1.66	2.66	2.21	2.12	2.60	2.99	1.68	4.24
IN.	1.48	1.06	2.26	2.16	1.73	3.07	2.46	2.44	2.90	3.45	1.94	4.73

CAL YR 1974 TOTAL 5423.3 MEAN 14.9 MAX 174 MIN 4.2 CFSM 1.63 IN 22.02
WTR YR 1975 TOTAL 7307.5 MEAN 20.0 MAX 290 MIN 5.2 CFSM 2.18 IN 29.68

PEAK DISCHARGE (BASE, 300 CFS)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
12-16	1515	6.72	315	7-13	1945	7.87	427
3-19	1930	7.78	418	9-24	2000	8.65	505

NOTE.--No gage-height record Dec. 31 to Mar. 10.

01467150 Cooper River at Haddonfield, N. J.

LOCATION.--Lat 39°54'11", long 75°01'19", Camden County, on right bank of Wallworth Lake in Pennypacker Park, 200 ft (61 m) upstream from bridge on State Highway 41 (Kings Highway) in Haddonfield, 0.6 mi (1.0 km) upstream from North Branch Cooper River and 7.7 mi (12.4 km) upstream from mouth.

DRAINAGE AREA.--17.4 mi² (45.1 km²).

PERIOD OF RECORD.--October 1963 to current year.

GAGE.--Water-stage recorder above concrete dam. Datum of gage is 9.39 ft (2.862 m) above mean sea level.

AVERAGE DISCHARGE.--12 years, 34.1 ft³/s (0.966 m³/s), [illegible] in/yr (676 mm/yr).

EXTREMES.--Current year: Maximum discharge, 696 ft³/s (19.7 m³/s) July 13 (gage height, 3.09 ft or 0.942 m); minimum, 1.0 ft³/s (0.028 m³/s) July 3 (gage height, 1.16 ft or 0.354 m).
Period of record: Maximum discharge 3,300 ft³/s (93.5 m³/s) Aug. 28, 1971 (gage height, 5.46 ft or 1.664 m); minimum, 0.8 ft³/s (0.023 m³/s) Nov. 13, 1972 (gage height, 1.07 ft or 0.326 m) regulation from unknown source; minimum daily, 1.2 ft³/s (0.034 m³/s) June 27, 1964.

REMARKS.--Records good. Occasional regulation at low flow from Kirkwood Lake and other small lakes and wastewater treatment plants. Records of water quality for the current year are published in Section 2 of this report.

REVISIONS (WATER YEARS).--WRD-NJ 1969: 1967(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	18	17	19	39	29	29	33	38	47	32	24	17
2	16	18	103	27	28	26	30	38	47	25	24	20
3	16	18	32	24	26	26	123	35	36	11	24	20
4	15	19	22	24	26	24	59	89	32	23	26	18
5	17	21	20	22	58	24	35	67	51	14	33	18
6	16	22	19	22	64	24	31	45	208	18	30	19
7	15	21	19	61	46	26	30	47	55	41	31	21
8	15	19	112	29	32	24	29	34	33	59	25	20
9	15	18	32	114	30	22	28	30	31	39	31	19
10	15	16	25	41	27	22	28	30	30	27	25	18
11	15	17	24	47	27	26	28	28	31	33	28	17
12	15	26	23	33	32	43	27	29	102	33	68	59
13	15	44	23	119	31	38	26	96	121	403	32	46
14	16	24	25	72	30	85	27	42	51	338	53	23
15	16	21	23	33	28	65	37	32	33	267	29	19
16	156	19	202	28	35	35	41	167	31	100	274	19
17	60	18	108	26	40	31	32	60	29	53	57	21
18	27	19	35	82	57	29	30	38	27	39	34	22
19	21	21	29	78	37	186	31	35	27	33	29	27
20	18	19	27	73	32	242	29	33	30	35	33	24
21	18	22	25	40	29	49	28	47	24	136	26	22
22	18	17	24	37	27	38	27	286	22	47	25	23
23	18	18	23	34	103	37	28	54	21	33	23	187
24	19	27	23	32	100	78	42	36	29	29	26	376
25	21	19	29	69	100	99	125	32	36	39	26	395
26	22	17	24	64	39	42	210	32	33	44	25	254
27	19	15	22	34	37	33	47	28	32	26	29	125
28	18	26	23	29	31	30	36	30	41	22	25	49
29	18	16	22	30	---	30	34	29	120	24	26	40
30	16	14	22	27	---	62	33	57	46	24	18	38
31	16	---	25	29	---	39	---	44	---	23	18	---
TOTAL	720	608	1184	1419	1181	1564	1344	1688	1456	2070	1177	1976
MEAN	23.2	20.3	38.2	45.8	42.2	50.5	44.8	54.5	48.5	66.8	38.0	65.9
MAX	156	44	202	119	103	242	210	286	208	403	274	395
MIN	15	14	19	22	26	22	26	28	21	11	18	17
CFSM	1.33	1.17	2.20	2.63	2.43	2.90	2.57	3.13	2.79	3.84	2.18	3.79
IN.	1.54	1.30	2.53	3.03	2.52	3.34	2.87	3.61	3.11	4.43	2.52	4.22

CAL YR 1974 TOTAL 12409 MEAN 34.0 MAX 288 MIN 13 CFSM 1.95 IN 26.53
WTR YR 1975 TOTAL 16387 MEAN 44.9 MAX 403 MIN 11 CFSM 2.58 IN 35.03

PEAK DISCHARGE (BASE, 500 CFS)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
3-19	2300	2.99	629	8-16	1300	2.97	617
7-13	1545	3.09	696	9-24	1915	3.02	647

01474500 Schuylkill River at Philadelphia, Pa.

LOCATION.--Lat 39°58'00", long 75°11'20", Philadelphia County, on right bank 150 ft (46 m) upstream from Fairmount Dam, 1,500 ft (457 m) upstream from Spring Garden Street Bridge, in Philadelphia, and 8.7 mi (14.0 km) upstream from mouth.

DRAINAGE AREA.--1,893 mi² (4,903 km²).

PERIOD OF RECORD.--September 1931 to current year. Records for January 1898 to December 1912, published in WSP 35, 48, 65, 82, 97, 125, 166, 202, 241, 261, 281, 301, 381, have been found to be unreliable and should not be used.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 5.74 ft (1.750 m) above mean sea level. Prior to Nov. 25, 1956, water-stage recorder at site on right bank just upstream from Fairmount Dam at same datum. Nov. 26, 1956 to Oct. 6, 1966, water-stage recorder at site on left bank 40 ft (12 m) upstream from Fairmount Dam at same datum.

AVERAGE DISCHARGE.--44 years, 2,903 ft³/s (82.21 m³/s), 20.83 in/yr (529 mm/yr), adjusted for diversion.

EXTREMES.--Current year: Maximum discharge, 40,400 ft³/s (1,140 m³/s) July 14 (gage height, 10.65 ft or 3.246 m); minimum, 598 ft³/s (16.9 m³/s) Nov. 12 (gage height, 5.84 ft or 1.780 m); minimum daily discharge, 719 ft³/s (20.4 m³/s) Nov. 11.

Period of record: Maximum discharge, 103,000 ft³/s (2,920 m³/s) June 23, 1972 (gage height, 14.65 ft or 4.465 m); no flow over dam at times; minimum daily, 0.6 ft³/s (0.02 m³/s) Sept. 2, 1966.

Maximum stage known, 17.0 ft (5.18 m) Oct. 4, 1896 (discharge, 135,000 ft³/s or 3,820 m³/s, from rating curve extended above 46,000 ft³/s or 1,300 m³/s). Flood of Mar. 1, 1902, reached a stage of 14.8 ft or 4.511 m (discharge, 98,000 ft³/s or 2,780 m³/s).

REMARKS.--Records good except those below 1,500 ft³/s (28.3 m³/s) which are fair. Some regulation by reservoirs above station. Records of daily discharge do not include diversion above station by city of Philadelphia for municipal water supply. Records of water quality for the current year are published in Section 2 of WRD-PA 1975.

REVISIONS (WATER YEARS).--WSP 756: Drainage area. WSP 1302: 1936(M). WSP 1432: 1945. See also PERIOD OF RECORD.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2260	800	920	2100	6450	6160	4190	2870	9340	4580	2340	1410
2	1700	792	1680	2710	4900	5320	3710	3400	4980	3690	2130	1180
3	1420	792	2080	2390	4360	4650	4120	3240	3020	2960	1970	1140
4	1280	801	1800	2050	3900	4050	10700	3680	2480	2980	1860	1040
5	1200	926	1410	1920	3690	3600	7830	8760	2480	2960	2530	1000
6	1130	946	1240	1850	3820	3330	6150	7330	8250	2630	2700	959
7	1070	921	1190	2870	3960	3170	5210	6380	8570	2790	2690	993
8	1030	818	7850	6380	3540	3130	4560	5340	5260	2300	2460	1010
9	1020	792	16400	6240	2910	2980	4030	4420	4010	2170	1960	904
10	964	773	9250	8490	2710	2520	3630	3860	3320	2350	1670	836
11	946	719	6040	7010	2520	2520	3330	3570	2840	2180	1570	748
12	920	731	4540	6660	2470	2480	3150	3360	6120	1960	1600	1010
13	914	1230	3850	6380	2390	3740	2950	4310	15500	16000	1490	1660
14	893	1640	3330	7920	2330	3420	2680	4720	6730	31500	1450	1620
15	849	1430	3810	5440	2150	3480	2570	3830	4530	15600	1700	1070
16	2980	1280	6870	4540	2160	4280	2710	4600	3830	10400	1840	944
17	4990	1190	13500	4020	2250	3720	2530	5080	3640	7280	2380	895
18	2530	1020	7960	4240	4180	3400	2340	3650	3170	6170	1890	850
19	1670	1010	5970	6520	6950	6510	2290	3240	2860	4960	1540	973
20	1370	1010	4780	10000	6930	30200	2270	2980	2850	4640	1420	1140
21	1220	1030	4100	5380	5380	17000	2100	2840	2570	11800	1350	2810
22	1130	1120	3590	3990	4510	10900	1910	2640	2100	6680	1170	1950
23	1080	1140	3210	3630	5610	8660	1790	5410	1930	4600	1100	6560
24	1030	1050	2890	3340	12000	7330	2020	4310	1980	3720	1170	15400
25	1010	1040	2710	4360	23300	9020	5410	3040	1730	6220	2860	25300
26	1010	1030	2560	9510	14400	6630	13100	2690	1980	7450	1350	26500
27	989	1010	2340	6660	9680	5270	5650	2560	2020	5320	1250	18200
28	917	925	2140	5140	7380	4680	3870	2360	2900	4080	1160	12000
29	895	932	2040	5200	---	4420	3330	2070	11100	3630	1010	8260
30	882	921	1910	7470	---	4840	3070	2240	6040	2910	965	6170
31	824	---	1870	6970	---	5280	---	2200	---	2590	1230	---
TOTAL	42123	29819	132980	161380	156830	186690	123200	120980	138130	188700	53805	139332
MEAN	1359	994	4290	5206	5601	6022	4107	3903	4604	6087	1736	4644
MAX	4990	1640	16400	10000	23300	30200	13100	8760	15500	31500	2860	25360
MIN	824	719	920	1850	2150	2480	1790	2070	1730	1960	965	748
(†)	255	257	249	258	258	272	268	280	289	306	330	283
MEAN‡	1614	1251	4539	5464	5859	6294	4375	4183	4893	6393	2066	4927
CFSM‡	.85	.66	2.40	2.89	3.10	3.33	2.31	2.21	2.58	3.38	1.09	2.60
IN‡	.98	.74	2.76	3.33	3.22	3.83	2.58	2.55	2.88	3.89	1.26	2.90

CAL YR 1974	TOTAL 1027296	MEAN 2815	MAX 18600	MIN 461	MEAN‡ 3084	CFSM‡ 1.63	IN‡ 22.07
WTR YR 1975	TOTAL 1473969	MEAN 4038	MAX 31500	MIN 719	MEAN‡ 4314	CFSM‡ 2.28	IN‡ 30.92

† Diversion, equivalent in cubic feet pr second, for municipal water supply; furnished by city of Philadelphia.
‡ Adjusted for diversion.

PEAK DISCHARGE (BASE, 18,000 CFS)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
12-08	2100	9.04	22,800	6-13	0515	8.62	18,900
12-16	2315	8.89	21,300	7-14	1115	10.65	40,400
2-25	0215	9.72	29,700	9-25	0430	9.62	28,600
3-20	0530	10.46	38,100				

01475000 Mantua Creek at Pitman, N. J.

LOCATION.--Lat 39°44'14", long 75°06'53", Gloucester County, on left abutment of Wadsworth Dam, 0.9 mi (1.5 km) east of Pitman, and 2.0 mi (3.2 km) upstream from Porch Branch.

DRAINAGE AREA.--6.05 mi² (15.67 km²).

PERIOD OF RECORD.--April 1940 to current year. Monthly discharge only for some periods, published in WSP 1302.

GAGE.--Water-stage recorder above concrete dam. Datum of gage is 68.51 ft (20.882 m) above mean sea level.

AVERAGE DISCHARGE.--35 years, 11.5 ft³/s (0.325 m³/s), 25.81 in/yr (656 mm/yr).

EXTREMES.--Current year: Maximum discharge, 366 ft³/s (10.4 m³/s) July 13 (gage height, 2.46 ft or 0.750 m); minimum, 7.9 ft³/s (0.22 m³/s) Oct. 7-15 (gage height, 1.08 ft or 0.329 m).

Period of record: Maximum discharge, about 4,200 ft³/s (119 m³/s) Sept. 1, 1940 (gage height, 6.64 ft or 2.024 m) by computation of peak flow over dam and through break in earth dike; minimum, 2.5 ft³/s (0.071 m³/s) for several days in July 1966 (gage height, 0.93 ft or 0.283 m).

REMARKS.--Records poor. Records of water quality for the current year are published in Section 2 of this report.

REVISIONS.--WRD-NJ 1971: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.5	9.5	9.0	12	11	12	15	11	18	11	15	11
2	8.5	9.5	21	12	11	11	14	11	18	10	15	11
3	8.2	11	12	11	10	11	23	11	11	10	15	11
4	8.2	11	9.5	11	10	11	19	17	10	10	15	10
5	8.2	9.5	9.5	10	15	11	14	17	15	10	26	10
6	8.2	14	9.5	10	18	11	14	12	65	10	31	10
7	8.1	18	9.5	16	16	11	12	11	16	18	40	10
8	7.9	9.0	26	14	11	11	12	10	14	19	21	10
9	7.9	9.0	23	25	11	11	12	9.0	14	11	19	10
10	7.9	9.0	18	19	10	11	12	9.0	12	11	18	10
11	7.9	9.0	9.5	16	10	11	10	9.0	11	15	23	9.0
12	7.9	10	9.5	15	11	15	10	9.0	24	15	69	11
13	7.9	10	15	23	11	18	10	22	26	163	15	24
14	7.9	9.5	10	26	11	19	10	17	15	81	19	12
15	8.1	9.5	11	12	10	21	12	11	12	98	14	10
16	43	12	32	11	10	14	15	29	11	37	116	11
17	23	12	32	11	11	12	14	16	11	28	35	11
18	10	11	14	16	15	12	14	12	10	25	23	11
19	9.0	9.5	12	23	12	45	12	11	10	24	18	11
20	9.0	9.5	12	19	10	59	12	10	11	24	16	11
21	9.0	9.5	12	15	10	25	11	11	9.5	47	16	11
22	9.0	9.5	11	14	10	19	11	50	9.5	26	16	11
23	9.0	9.5	11	12	19	18	11	17	9.5	21	18	40
24	9.0	9.5	11	12	24	26	12	12	9.0	19	16	85
25	9.4	9.0	11	16	31	35	25	11	9.5	19	16	100
26	12	9.0	11	23	15	18	48	11	10	19	16	80
27	10	9.0	10	14	12	16	16	11	11	16	15	52
28	9.5	9.0	10	12	12	15	13	9.9	24	16	14	36
29	9.5	9.0	10	12	---	15	12	9.5	34	16	12	30
30	9.5	9.0	10	11	---	19	12	13	18	16	12	24
31	9.5	---	10	11	---	18	---	16	---	15	11	---
TOTAL	320.7	303.5	421.0	464	367	561	437	435.4	478.0	860	723	693.0
MEAN	10.3	10.1	13.6	15.0	13.1	18.1	14.6	14.0	15.9	27.7	23.3	23.1
MAX	43	18	32	26	31	59	48	50	65	163	116	100
MIN	7.9	9.0	9.0	10	10	11	10	9.0	9.0	10	11	9.0
CFSM	1.70	1.67	2.25	2.48	2.17	2.99	2.41	2.31	2.63	4.58	3.85	3.82
IN.	1.97	1.87	2.59	2.85	2.26	3.45	2.69	2.68	2.94	5.29	4.44	4.26

CAL YR 1974 TOTAL 3696.9 MEAN 10.1 MAX 44 MIN 4.7 CFSM 1.67 IN 22.73
WTR YR 1975 TOTAL 6063.6 MEAN 16.6 MAX 163 MIN 7.9 CFSM 2.74 IN 37.20

PEAK DISCHARGE (BASE, 75 CFS, REVISED)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
3-19	2300	1.79	138	7-13	1300	2.46	366
4-26	0300	1.55	81	7-15	1200	1.96	187
5-22	1000	1.53	77	8-12	0400	1.81	143
6-06	0600	1.66	105	8-16	1400	2.29	301
6-28	2200	1.56	83	9-24	2200	1.70	114

01477120 Raccoon Creek near Swedesboro, N. J.

LOCATION.--Lat 39°44'28", long 75°15'33", Gloucester County, on right bank 25 ft (7.6 m) downstream from county bridge No. 5-F-3 on Harrisonville-Gibbstown Road, 1.8 mi (2.9 km) west of Mullica Hill, and 2.8 mi (4.5 km) east of Swedesboro.

DRAINAGE AREA.--29.9 mi² (77.4 km²).

PERIOD OF RECORD.--May 1966 to current year.

GAGE.--Water-stage recorder. Datum of gage is at mean sea level. Prior to July 28, 1969, at datum 7.96 ft (2.426 m) higher. July 28, 1969 to Sept. 30, 1969, at datum 5.96 ft (1.817 m) higher.

AVERAGE DISCHARGE.--9 years, 44.6 ft³/s (1.263 m³/s), 20.26 in/yr (515 mm/yr).

EXTREMES.--Current year: Maximum discharge, 1,170 ft³/s (33.1 m³/s) July 15 (elevation, 13.83 ft or 4.215 m); minimum, 15 ft³/s (0.42 m³/s) Oct. 7-9, 11, 12 (elevation, 6.94 ft or 2.115 m).
Period of record: Maximum discharge, 3,530 ft³/s (100 m³/s) Aug. 10, 1967 (elevation, 17.44 ft or 5.316 m) present datum; minimum daily, 2.9 ft³/s (0.082 m³/s) July 14, Aug. 27, 28, Sept. 10, 1966.

REMARKS.--Records fair except those from Dec. 20 to Apr. 24, which are poor. Records of water quality for the current year are published in Section 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	17	17	17	34	32	29	48	36	65	52	37	29
2	16	17	51	28	31	27	43	38	68	45	36	29
3	16	18	32	25	30	27	69	34	42	40	35	29
4	16	17	23	23	30	33	71	64	35	39	38	28
5	16	17	20	22	46	40	50	68	51	36	91	28
6	16	23	19	20	64	42	40	45	325	41	59	29
7	15	20	18	30	60	40	34	42	88	53	55	29
8	15	19	67	45	43	35	33	36	56	91	43	29
9	15	17	60	32	34	32	31	31	46	45	38	29
10	16	17	31	100	30	35	31	29	42	41	36	27
11	15	16	26	50	29	45	30	27	42	69	44	28
12	15	17	23	43	35	55	29	27	96	45	100	36
13	16	25	21	35	33	70	28	75	146	407	39	47
14	16	20	23	83	33	88	30	45	66	519	44	33
15	16	19	23	40	31	78	35	36	52	688	39	29
16	88	18	86	33	36	60	42	109	48	226	461	29
17	67	18	108	31	40	51	38	79	48	116	202	24
18	29	18	43	50	48	52	32	48	43	90	71	29
19	22	17	34	87	38	80	29	39	40	66	51	30
20	20	17	30	80	34	180	36	33	48	58	43	30
21	19	19	27	50	33	80	33	33	39	206	39	29
22	19	18	24	42	32	66	31	309	36	82	37	29
23	18	17	23	37	93	70	31	97	34	55	35	109
24	18	17	21	39	126	150	28	49	35	51	35	376
25	18	17	26	61	75	98	52	41	36	51	35	434
26	18	18	24	80	42	68	178	38	36	48	33	134
27	18	17	22	50	36	54	65	36	36	44	31	86
28	17	17	21	34	35	47	48	32	89	42	30	68
29	17	16	20	35	---	50	42	28	450	41	29	56
30	17	16	20	31	---	62	37	47	93	39	29	43
31	17	---	21	33	---	60	---	72	---	38	29	---
TOTAL	658	539	1004	1391	1229	1904	1324	1723	2331	3464	1924	1965
MEAN	21.2	18.0	32.4	44.9	43.9	61.4	44.1	55.6	77.7	112	62.1	65.5
MAX	88	25	108	100	126	180	178	309	450	688	461	434
MIN	15	16	17	20	29	27	28	27	34	36	29	27
CFSM	.71	.60	1.08	1.50	1.47	2.05	1.47	1.86	2.60	3.75	2.08	2.19
IN.	.82	.67	1.25	1.73	1.53	2.37	1.65	2.14	2.90	4.31	2.39	2.44

CAL YR 1974 TOTAL 12089 MEAN 33.1 MAX 211 MIN 13 CFSM 1.11 IN 15.04
WTR YR 1975 TOTAL 19456 MEAN 53.3 MAX 688 MIN 15 CFSM 1.78 IN 24.21

PEAK DISCHARGE (BASE, 300 CFS)

DATE	TIME	ELEV.	DISCHARGE	DATE	TIME	ELEV.	DISCHARGE
5-22	1015	11.26	425	7-21	0815	10.34	300
6-06	0800	11.48	464	8-12	0030	10.55	334
6-29	0515	12.78	786	8-16	1845	12.73	770
7-15	1315	13.83	1,170	9-25	0015	12.87	815

01482500 Salem River at Woodstown, N. J.

LOCATION.--Lat 39°38'36", long 75°19'52", Salem County, on right end of Memorial Lake Dam at Woodstown, 0.2 mi (0.3 km) upstream from small brook, and 0.3 mi (0.5 km) downstream from Pennsylvania-Reading Seashore Lines bridge.

DRAINAGE AREA.--14.6 mi² (37.8 km²).

PERIOD OF RECORD.--March to September 1940, December 1941 to current year. Prior to October 1952, published as "Salem Creek at Woodstown".

GAGE.--Water-stage recorder above concrete dam. Datum of gage is 29.49 ft (8.989 m) above mean sea level.

AVERAGE DISCHARGE.--33 years (1942-75), 19.1 ft³/s (0.541 m³/s), 17.77 in/yr (451 mm/yr).

EXTREMES.--Current year: Maximum discharge, 1,710 ft³/s (48.4 m³/s) Aug. 16 (gage height, 3.11 ft or 0.948 m); minimum, 4.5 ft³/s (0.13 m³/s) Oct. 13, 14, Dec. 1 (gage height, 1.06 ft or 0.323 m).

Period of record: Maximum discharge, 22,000 ft³/s (623 m³/s) Sept. 1, 1940 (gage height, 7.98 ft or 2.432 m, from floodmark in recorder shelter) from rating curve extended above 220 ft³/s (6.23 m³/s) on basis of slope-area measurement of peak flow at site 0.5 mi (0.8 km) downstream; no flow for short periods during many years just after waste gate was closed and water was below spillway.

REMARKS.--Records good except those below 10 ft³/s (0.28 m³/s), which are fair. Records given herein represent flow over dam and flow through waste gate. Occasional regulation by Memorial Lake and several small lakes and ponds above station. Records of water quality for the current year are published in Section 2 of this report.

REVISIONS (WATER YEARS).--WSP 1432: 1951(M). WSP 1702: 1959.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.4	11	7.0	18	29	19	21	13	59	8.5	9.6	8.6
2	5.9	11	68	17	18	18	19	5.9	41	7.6	9.6	9.6
3	5.4	14	23	13	17	16	43	7.7	17	18	10	9.1
4	5.4	15	13	13	16	15	33	45	13	23	11	8.5
5	5.4	16	9.6	13	26	16	21	68	30	18	41	8.5
6	5.4	23	9.4	12	49	16	18	21	171	9.8	18	9.2
7	5.4	13	9.8	28	41	16	17	19	32	21	18	11
8	5.4	9.6	76	20	25	17	16	16	18	32	13	11
9	5.4	8.5	49	62	20	14	16	14	16	13	11	9.2
10	5.4	7.9	17	29	19	15	15	13	13	12	9.8	8.5
11	5.4	7.5	13	36	18	18	15	13	13	66	11	8.7
12	5.4	8.7	13	33	16	25	14	13	77	18	9.3	16
13	5.1	13	11	72	28	36	14	30	72	384	9.6	28
14	5.2	11	14	67	19	57	14	17	26	278	13	11
15	5.9	8.9	14	23	18	53	16	13	18	525	11	9.6
16	80	8.5	111	18	18	26	22	83	15	183	955	8.5
17	44	8.4	91	17	18	21	16	33	15	36	75	8.5
18	14	8.5	25	34	24	28	14	18	14	24	23	8.0
19	10	8.5	17	72	27	199	14	17	13	20	16	8.1
20	9.2	8.9	15	63	24	191	14	15	23	19	14	8.5
21	8.5	9.7	14	32	21	34	12	14	11	114	13	8.8
22	8.0	9.2	14	25	18	29	11	50	8.6	25	13	8.5
23	7.6	8.5	13	25	47	28	11	23	7.4	18	11	83
24	7.9	8.5	13	25	85	91	12	15	7.4	14	13	316
25	8.5	8.8	13	47	105	122	29	13	8.2	15	14	258
26	8.5	9.5	13	92	30	32	173	13	8.4	15	11	54
27	8.1	9.6	12	29	22	22	42	12	8.5	13	9.6	38
28	8.0	8.9	12	23	20	28	31	11	8.8	12	8.8	21
29	9.3	8.5	11	22	---	28	17	18	15	13	8.5	17
30	10	8.5	11	19	---	39	15	29	11	12	8.5	16
31	11	---	11	18	---	29	---	55	---	9.9	8.5	---
TOTAL	336.1	310.6	743.0	1017	803	1279	725	691.6	781.3	1864.8	1026.8	1028.1
MEAN	10.8	10.4	24.0	32.8	28.7	41.3	24.2	22.3	26.0	60.2	33.1	34.3
MAX	80	23	111	92	105	199	173	83	171	525	955	316
MIN	5.1	7.5	7.0	12	16	14	11	5.9	7.4	7.6	8.5	8.0
CFSM	.74	.71	1.64	2.25	1.97	2.83	1.66	1.53	1.78	4.12	2.27	2.35
IN.	.86	.79	1.89	2.59	2.05	3.26	1.85	1.76	1.99	4.75	2.62	2.62

CAL YR 1974 TOTAL 5902.8 MEAN 16.2 MAX 154 MIN 1.5 CFSM 1.11 IN 15.04
WTR YR 1975 TOTAL 10686.3 MEAN 29.1 MAX 955 MIN 5.1 CFSM 1.99 IN 27.02

PEAK DISCHARGE (BASE, 350 CFS)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
3-19	2100	2.26	739	7-15	1100	2.85	1,390
4-26	0400	1.83	357	8-16	1300	3.11	1,710
6-06	0600	1.83	357	9-24	2200	2.35	834

Reservoirs in Delaware River basin

01416900 **PEPACTON RESERVOIR.**--Lat 42°04'38", long 74°58'04", Delaware County, N.Y., near release chamber at Downsville Dam on East Branch Delaware River, 1.6 mi (2.6 km) east of Downsville, N.Y. Drainage area, 371 mi^2 (961 km^2). Period of record, September 1954 to current year. Gage, water-stage recorder. Datum of gage is at mean sea level (levels by Board of Water Supply, City of New York). Extremes for current year: Maximum contents observed, 152,492 mil gal (577.2 hm^3) Feb. 26 (elevation 1,281.45 ft or 390.586 m); minimum observed 125,351 mil gal (474.5 hm^3) Nov. 12 (elevation, 1,266.07 ft or 385.898 m). Extremes for period of record: Maximum contents observed, 154,027 mil gal (583.0 hm^3) Apr. 5, 1960 (elevation, 1,282.27 ft or 390.836 m); minimum observed (after first filling), 9,575 mil gal (36.24 hm^3) Dec. 26, 1964 (elevation, 1,151.92 ft or 351.105 m).

Reservoir is formed by an earth-fill, rock-faced dam; storage began Sept. 15, 1954. Usable capacity 140,190 mil gal (530.6 hm^3) between minimum operating level (elevation, 1,152.0 ft or 351.13 m) and crest of spillway (elevation 1,280.0 ft or 390.14 m). Capacity, at crest of spillway 149,700 mil gal (566.6 hm^3); at minimum operating level, 9,609 mil gal (36.37 hm^3); at sill of diversion tunnel (elevation 1,143.0 ft or 348.39 m), 6,098 mil gal (23.08 hm^3); in dead storage below release outlet (elevation, 1,126.50 ft or 343.357 m), 1,898 mil gal (7.184 hm^3). Figures given herein represent total contents. Reservoir impounds water for diversion through East Delaware Tunnel to Rondout Reservoir on Rondout Creek, in Hudson River basin (see elsewhere in this section), for water supply of City of New York; for release during periods of low-flow in the lower Delaware River basin, as directed by the Delaware River Master, and for conservation release. No diversion prior to Jan. 6, 1955. Records furnished by Board of Water Supply and Department of Water Resources, City of New York.

01424997 **CANNONSVILLE RESERVOIR.**--Lat 42°03'46", long 75°22'29", Delaware County, N.Y., in emergency gate tower at Cannonsville dam on West Branch Delaware River, 1.8 mi (2.9 km) southeast of Stilesville, N.Y. Drainage area 454 mi^2 (1,176 km^2). Period of record, October 1963 to current year. Gage, water-stage recorder. Datum of gage is at mean sea level (levels by Board of Water Supply, City of New York). Extremes for current year: Maximum contents observed, 105,539 mil gal (399.5 hm^3) Feb. 26 (elevation, 1,154.30 ft or 351.831 m); minimun observed, 93,628 mil gal (354.4 hm^3) Aug. 30 (elevation, 1,146.72 ft or 349.520 m). Extremes for period of record: Maximum contents observed, 107,348 mil gal (406.3 hm^3) Apr. 21, 1972 (elevation, 1,155.40 ft or 352.166 m); minimum observed (after first filling), 11,901 mil gal (45.05 hm^3) Nov. 7, 1968 (elevation, 1,066.24 ft or 324.990 m).

Reservoir is formed by an earth-fill, rock-faced dam; storage began Sept. 30, 1963. Usable capacity 95,706 mil gal (362.2 hm^3) between miniaum operating level (elevation, 1,040.0 ft or 316.99 m) and crest of spillway (elevation, 1,150.0 ft or 350.52 m). Capacity, at crest of spillway, 98,618 mil gal (373.3 hm^3); at minimum operating level, 2,912 mil gal (11.02 hm^3); at mouth of inlet channel to diversion tunnel (elevation, 1,035.0 ft or 315.47 m), 1,892 mil gal (7.161 hm^3); in dead storage below release outlet (elevation, 1,020.5 ft or 311.05 m), 328 mil gal (1.241 hm^3). Figures given herein represent total contents. Impounded water is diverted for New York City water supply via West Delaware Tunnel to Rondout Reservoir in Hudson River basin (see elsewhere in this section); is released in Delaware River for downstream low flow augmentation as directed by Delaware River Master; and is released for conservation flow in the Delaware River. No diversion prior to January 29, 1964. Records furnished by Board of Water Supply, City of New York.

REVISIONS (WATER YEARS).--WRD-NY 1972: 1966.

01428900 **PROMPTON RESERVOIR.**--Lat 41°35'18", long 75°19'39", Wayne County, Pa., at dam on West Branch Lackawaxen River, 0.3 mi (0.5 km) north of Prompton, 0.4 mi (0.6 km) upstream from highway bridge and 0.5 mi (0.8 km) upstream from Van Auken Creek. Drainage area, 59.6 mi^2 (154 km^2). Period of record, December 1960 to current year. Gage, water-stage recorder. Datum of gage is at mean sea level (levels by Corps of Engineers). Extremes for current year: Maximum contents, 5,370 acre-ft (6.62 hm^3) Sept. 25 (elevation, 1,131.30 ft or 344.820 m); minimum, 3,490 acre-ft (4.30 hm^3) Sept. 7 (elevation, 1,125.25 ft or 342.976 m). Extremes for period of record: Maximum contents, 8,170 acre-ft (10.1 hm^3) June 29, 1973 (elevation, 1,138.40 ft or 346.984 m); minimum (after first filling), 2,920 acre-ft (3.60 hm^3) Sept. 27, 1964 (elevation, 1,123.20 ft or 342.351 m).

Reservoir formed by an earth and rockfill dam with ungaged bedrock spillway at elevation 1,205.00 ft (367.284 m). Storage began July 1960. Capacity at elevation 1,205.00 ft (367.284 m) is 51,700 acre-ft (63.7 hm^3). Ordinary minimum (conservation) pool elevation, 1,125.00 ft or 342.900 m (capacity, 3,420 acre-ft or 4.22 hm^3). Reservoir is used for flood control and recreation. Figures given herein represent total contents. Regulation is accomplished by discharge through an ungated tunnel. Records furnished by Corps of Engineers.

01429400 **GENERAL EDGAR JADWIN RESERVOIR.**--Lat 41°36'44", long 75°15'55", Wayne County, Pa., at dam on Dyberry Creek, 0.45 mi (0.72 km) upstream from unnamed tributary, 2.4 mi (3.9 km) north of Honesdale, and 2.9 mi (4.7 km) upstream from mouth. Drainage area, 64.5 mi^2 (167.1 km^2). Period of record, October 1959 to current year. Gage, water-stage recorder. Datum of gage is at mean sea level (levels by Corps of Engineers). Extremes for current year: Maximum contents, 5,500 acre-ft (6.78 hm^3) Feb. 25 (elevation, 1,014.00 ft or 309.067 m); minimum, no storage many times. Extremes for period of record: Maximum contents, 6,520 acre-ft (8.04 hm^3) June 19, 1973 (elevation, 1,017.40 ft or 310,104 m); minimum, no storage many times.

Reservoir formed by an earth and rockfill dam with ungated, concrete spillway at elevation, 1,053.00 ft (320.954 m). Storage began in October 1959. Capacity at elevation 1,053.00 ft (320.954 m) is 24,500 acre-ft (30.2 hm^3). Reservoir is used for flood control. Figures given herein represent total contents. Regulation is accomplished by discharge through an ungated tunnel. Records furnished by Corps of Engineers.

01431700 **LAKE WALLENPAUPACK.**--Lat 41°27'35", long 75°11'10", Wayne County, Pa., at dam on Wallenpaupack Creek at Wilsonville, 1.2 mi (1.9 km) south of Hawley and 1.5 mi (2.4 km) upstream from mouth. Drainage area, 228 mi^2 (591 km^2). Period of record, January 1926 to current year. Gage, vertical staff. Datum of gage is at mean sea level (levels by Pennsylvania Power and Light Co.). Extremes for current year: Maximum contents, 142,210 acre-ft (175 hm^3) May 18 (elevation, 1,187.30 ft or 361.889 m); minimum, 85,400 acre-ft (105 hm^3) Oct. 25 (elevation, 1,177.00 ft or 358.750 m). Extremes for period of record: Maximum contents, 178,200 acre-ft (220 hm^3) Aug. 19-21, 1955 (elevation, 1,193.45 ft or 363.764 m); minimum (after first filling), 12,280 acre-ft (15.1 hm^3) Mar. 28, 1958 (elevation, 1,162.60 ft or 354.360 m).

Reservoir formed by concrete gravity-type and earthfill dam, with concrete spillway at elevation, 1,176.00 ft (358.445 m) in two sections. Spillway equipped with roller gate, 14 ft high (4.267 m) on each section. Storage began Nov. 3, 1925; water in reservoir first reached minimum pool elevation in January 1926. Total capacity at elevation, 1,190.00 ft or 362.712 m (top of gates) is 209,300 acre-ft (258 hm^3), of which 157,800 acre-ft (195 hm^3) is controlled storage above elevation, 1,160.00 ft or 353.568 m (minimum pool). Reservoir is used for generation of hydroelectric power. Figures given herein represent usable contents. Records furnished by Pennsylvania Power and Light Co.

Reservoirs in Delaware River basin--Continued

01433000 **SWINGING BRIDGE RESERVOIR.**--Lat 41°34'25", long 74°47'00", Sullivan County, N.Y., at dam on Mongaup River, 1.8 mi (2.9 km) northwest of Fowlersville, N.Y. Drainage area, 118 mi² or 306 km² (excluding Cliff Lake, Lebanon Lake, and Toronto Reservoir). Period of record, January 1930 to current year. Gage, water-stage recorder. Datum of gage is at mean sea level (levels by Orange and Rockland Utilities, Inc.). All capacity figures given herein are based on zero storage at minimum operating pool level (1,010 ft or 308 m). Extremes for current year: Maximum contents, 1,440.8 mil ft³ (40.8 hm³) Mar. 26 (elevation, 1,071.3 ft or 326.53 m); minimum, 975.9 mil ft³ (27.6 hm³) Feb. 19 (elevation, 1,059.0 ft or 322.78 m). Extremes for period of record: Maximum contents, 1,457.4 mil ft³ (41.3 hm³) Mar. 18, 1936, Oct. 15, 1955 and June 29, 1973 (elevation, 1,071.7 ft or 326.65 m); minimum (after first filling), -141.4 mil ft³ (-4.00 hm³) Dec. 2, 1938 (elevation, 987.5 ft or 300.99 m).

Reservoir is formed by an earth-fill dam. Storage began Jan. 19, 1930. Usable capacity, 1,436.6 mil ft³ (40.7 hm³) between elevations 1,010.0 ft or 307.85 m (minimum operating pool) and 1,071.2 ft or 326.50 m (top of flashboards). Capacity below elevation, 1,010.0 ft or 307.85 m (minimum operating pool) about 212.7 mil ft³ (6.02 hm³). Reservoir is used for storage of water for power. Figures given herein represent contents above 1,010.0 ft (307.85 m). Water is received from Cliff Lake, Lebanon Lake, and Toronto Reservoir. Records furnished by Orange and Rockland Utilities, Inc.

REVISIONS (WATER YEARS).--WSP 1552: 1951-54.

01433100 **TORONTO RESERVOIR.**--Lat 41°37'15", long 74°49'55", Sullivan County, N.Y., at dam on Black Lake Creek, 2.5 mi (4.0 km) southeast of village of Black Lake, N.Y. Drainage area, 23.2 mi² (60.1 km²). Period of record, January 1926 to current year. Nonrecording gage. Datum of gage is at mean sea level (levels by Orange and Rockland Utilities, Inc.). All capacity figures given herein are based on zero storage at minimum operating pool level (1,165.0 ft or 355.09 m). Extremes for current year: Maximum contents observed, 1,116.2 mil ft³ (31.61 hm³) May 16 (elevation 1,220.5 ft or 372.01 m); minimum observed 250.2 mil ft³ (7.09 hm³) Dec. 6 (elevation, 1,187.3 ft or 361.89 m). Extremes for period of record: Maximum contents observed 1,171.2 mil ft³ (33.2 hm³) July 20, 1945 (elevation, 1,222.0 ft or 372.47 m); minimum observed (after first filling), -26.8 mil ft³ (-0.759 hm³) Nov. 15, 1928 (elevation 1,144.5 ft or 348.84 m).

Reservoir is formed by an earth-fill dam completed July 24, 1926. Storage began Jan. 13, 1926. Usable capacity 1,098.2 mil ft³ (31.1 hm³) between elevations 1,165.0 ft or 355.09 m (minimum operating pool) and 1,220.0 ft or 371.86 m (top of permanent flashboards). Capacity below elevation 1,165.0 ft or 355.09 m (minimum operating pool) about 26.8 mil ft³ (0.759 hm³). Reservoir is used for storage of water for power. Figures given herein represent contents above 1,165.0 ft (355.09 m). Records furnished by Orange and Rockland Utilities, Inc.

REVISIONS (WATER YEARS).--WSP 1552: 1951-54. WSP 1702: 1959(M).

01433200 **CLIFF LAKE.**--Lat 41°35'00", long 74°47'40", Sullivan County, N.Y., at dam on Black Lake Creek, 2.5 mi (4.0 km) northwest of Fowlersville, N.Y. Drainage area, 6.46 mi² or 16.7 km² (excluding area above Toronto Reservoir). Period of record, January 1939 to current year. Nonrecording gage. Datum of gage is at mean sea level (levels by Orange and Rockland Utilities, Inc.). All capacity figures given herein are based on zero storage at minimum operating pool level (1,043.3 ft or 318.00 m). Extremes for current year: Maximum contents observed 131.9 mil ft³ (3.735 hm³) Dec. 10 (elevation, 1,071.5 ft or 326.59 m); minimum observed 51.4 mil ft³ (1.456 hm³) Feb. 19 (elevation, 1,059.5 ft or 322.94 m). Extremes for period of record: Maximum contents observed, 145.44 mil ft³ (4.12 hm³) July 30, 31, 1945 (elevation, 1,073.1 ft or 327.08 m); minimum observed (after first filling), about -6.54 mil ft³ (-0.185 hm³) Mar. 16, 1963 (elevation, 1,038.0 ft or 316.38 m).

Reservoir is formed by a concrete gravity-type dam. Storage began Jan. 6, 1939. Usable capacity, 136.06 mil ft³ (3.85 hm³) between elevations 1,043.3 ft or 318.00 m, (minimum operating pool) and 1,072.0 ft or 326.75 m (top of permanent flashboards). Capacity below elevation 1,043.3 ft or 318.00 m (minimum operating pool) about 6.54 mil ft³ (0.185 hm³). Reservoir is used for storage of water for power. Water is received from Toronto and Lebanon Lake reservoirs and is discharged through a tunnel into Swinging Bridge Reservoir. Figures given herein represent contents above 1,043.3 ft (318.00 m). Records furnished by Orange and Rockland Utilities, Inc.

REVISIONS (WATER YEARS).--WSP 1552: 1951-54. The minimum observed contents for the water year 1974 has been revised to 37.7 mil ft³ (1.068 hm³) Feb. 22 (elevation, 1,056.5 ft or 322.02 m), superseding figures published in WRD-NY 1974.

01435900 **NEVERSINK RESERVOIR.**--Lat 41°49'40", long 74°38'21", Sullivan County, N.Y., at a gatehouse at Neversink River, 2 mi (3 km) southwest of Neversink, N.Y. Drainage area, 91.8 mi² (237.8 km²). Period of record, June 1953 to current year. Nonrecording gage read daily at 0900. Datum of gage is at mean sea level (levels by Board of Water Supply, City of New York). Extremes for current year: Maximum contents observed, 37,534 mil gal (142.1 hm³) June 13 (elevation, 1,440.78 ft or 439.150 m); minimum observed, 17,389 mil gal (65.82 hm³) Dec. 7 (elevation, 1,391.19 ft or 424.035 m). Extremes for period of record: Maximum contents observed, 37,978 mil gal (143.7 hm³) Apr. 25, 1961 (elevation, 1,441.67 ft or 439.421 m); minimum observed (after first filling), 1,985 mil gal (7.513 hm³) Nov. 25, 1964 (elevation, 1,316.98 ft or 401.415 m).

Reservoir is formed by an earth-fill, rock-faced dam; storage began June 2, 1953. Usable capacity 34,941 mil gal (132.25 hm³) between minimum operating level (elevation, 1,319.0 ft or 402 m) and crest of spillway (elevation, 1,440.0 ft or 438.9 m). Capacity at crest of spillway 37,146 mil gal (140.6 hm³); at minimum operating level 2,205 mil gal (8.35 hm³); dead storage below diversion sill and outlet sill (elevation, 1,314.0 ft or 400.5 m), 1,680 mil gal (6.36 hm³). Figures given herein represent total contents. Reservoir impounds water for diversion through Neversink-Grahamsville Tunnel to Rondout Reservoir on Rondout Creek, in Hudson River basin, for water supply of City of New York (see elsewhere in this section); for release during periods of low flow in the lower Delaware River basin, as directed by the Delaware River Master, and for conservation release. No diversion prior to Dec. 3, 1953. Records furnished by Board of Water Supply, and Department of Water Resources, City of New York.

01447780 **FRANCIS E. WALTER RESERVOIR** (formerly published as Bear Creek Reservoir).--Lat 41°06'45", long 75°43'15", Luzerne County, Pa., at dam on Lehigh River, 2,200 ft (670 m) downstream from Bear Creek and 5 mi (8 km) northwest of White Haven. Drainage area, 289 mi² (749 km²). Period of record, February 1961 to current year. Gage, water-stage recorder. Datum of gage is at mean sea level (levels by Corps of Engineers). Extremes for current year: Maximum contents, 9,940 acre-ft (12.3 hm³) Sept. 26 (elevation, 1,344.13 ft or 409.691 m); minimum, 1,440 acre-ft (1.78 hm³) June 8 (elevation, 1,294.35 ft or 395.518 m). Extremes for period of record: Maximum contents, 42,600 acre-ft (52.5 hm³) June 26, 1972 (elevation, 1,398.20 ft or 426.171 m); minimum (after establishment of conservation pool), 1,510 acre-ft (1.86 hm³) Apr. 23, 1962 (elevation, 1,295.10 ft or 394.746 m).

Reservoir formed by an earthfill embankment covered with a rock shell, with concrete spillway at elevation, 1,450.0 ft (441.96 m). Storage began Feb. 17, 1961; water in reservoir first reached conservation pool elevation in June 1961. Total capacity at elevation 1,450.0 ft (441.96 m) is 110,700 acre-ft (136 hm³) of which 108,700 acre-ft (134 hm³) is controlled storage above elevation 1,300.0 ft or 396.24 m (conservation pool). Dead storage is 2,000 acre-ft (2.47 hm³). Reservoir is used for flood control and recreation. Figures given herein represent total contents. Flow regulated by three gates and low flow by-pass system. Records furnished by Corps of Engineers.

Reservoirs in Delaware River basin--Continued

01449400 **PENN FOREST RESERVOIR.**--Lat 40°55'45", long 75°33'45", Carbon County, Pa., at dam on Wild Creek near Hatchery, Pa., 0.7 mi (1.1 km) upstream from Hatchery, 2.6 mi (4.2 km) upstream from Wild Creek Dam, 4.4 mi (7.1 km) upstream from mouth, and 10 mi (16 km) northeast of Palmerton. Drainage area, 16.5 mi^3 (42.7 km^3). Period of record, October 1958 to current year. Gage, water-stage recorder. Datum of gage is at mean sea level (levels by city of Bethlehem). Extremes for current year: Maximum contents, 20,420 acre-ft (25.2 hm^3) Feb. 25 (elevation, 1,000.76 ft or 305.032 m); minimum, 18,230 acre-ft (22.5 hm^3) Oct. 26 (elevation, 996.12 ft or 303.617 m). Extremes for period of record: Maximum contents, 20,470 acre-ft (25.2 hm^3) Dec. 22, 1973 (elevation, 1,000.84 ft or 305.056 m); minimum, 176 acre-ft (0.217 hm^3) Oct. 6, 1965 (elevation, 902.40 ft or 275.052 m).

Reservoir formed by an earthfill dam, with ungated concrete spillway at elevation, 1,000.00 ft (304.800 m). Storage began in October 1958. Capacity at elevation 1,000.00 ft (304.800 m) is 19,980 acre-ft (24.6 hm^3). Reservoir is used for municipal water supply. Figures given herein represent total contents. Regulation is done by valves on pipe through dam. Records furnished by city of Bethlehem. Figures given herein include diversion, since October 1969, from Tunkhannock Creek basin into Wild Creek basin.

01449700 **WILD CREEK RESERVOIR.**--Lat 40°53'50", long 75°33'50", Carbon County, Pa., at dam on Wild Creek near Hatchery, Pa., 1.6 mi (2.6 km) upstream from mouth, 2.4 mi (3.9 km) south of Hatchery, and 7.5 mi (12 km) northeast of Palmerton. Drainage area, 22.2 mi^2 (57.5 km^2). Period of record, January 1941 to current year. Nonrecording gage. Datum of gage is at mean sea level (levels by city of Bethlehem). Extremes for current year: Maximum contents, 12,280 acre-ft (15.1 hm^3) Feb. 25 (elevation, 820.94 ft or 250.233 m); minimum, 9,500 acre-ft (11.7 hm^3) Dec. 1 (elevation, 810.66 ft or 247.089 m). Extremes for period of record: Maximum contents, 12,880 acre-ft (15.9 hm^3) May 23, 1942 (elevation, 822.93 ft or 250.829 m); minimum (after first filling), 2,680 acre-ft (3.30 hm^3) Nov. 15, 1966 (elevation, 774.10 ft or 235.946 m).

Reservoir formed by earthfill dam, with concrete ungated spillway at elevation, 820.00 ft (249.936 m). Storage began January 27, 1941; water in reservoir first reached minimum pool elevation in February 1941. Total capacity at elevation 820.00 ft (249.936 m) is 12,500 acre-ft (15.4 hm^3) of which 12,000 acre-ft (15 hm^3) is controlled storage. Reservoir is used for municipal water supply. Figures given herein represent usable contents. Regulation is accomplished by valves on pipe through dam. Records furnished by city of Bethlehem. Since October 1969 the basin upstream has received diversion from Tunkhannock Creek basin.

01449790 **BELTZVILLE LAKE.**--Lat 40°50'56", long 75°38'19", Carbon County, Pa., at dam on Pohopoco Creek, 0.45 mi (0.72 km) upstream from gaging station on Pohopoco Creek, 0.55 mi (0.88 km) upstream from Sawmill Run and 2.3 mi (3.7 km) northeast of Parryville. Draingage area, 96.3 mi^3 (249.4 km^3). Period of record, February 1971 to current year. Gage, water-stage recorder. Datum of gage is at mean sea level (levels by Corps of Engineers). Extremes for current year: Maximum contents 44,900 acre-ft (55.4 hm^3) Feb. 26 (elevation, 631.70 ft or 192.542 m); minimum, 40,300 acre-ft (49.7 hm^3) Sept. 19 (elevation, 627.00 ft or 191.110 m). Extremes for period of record: Maximum contents, 48,410 acre-ft (55.4 hm^3) July 4, 1973 (elevation 635.10 ft or 193.578 m); minimum, 136 acre-ft (0.168 hm^3) Feb. 8, 1971 (elevation 516.20 ft or 157.338 m).

Reservoir formed by an earth and rockfill dam with ungated, partially lined spillway at elevation 651.00 ft (198.425 m). Storage began Feb. 8, 1971. Capacity at elevation 651.00 ft (198.425 m) is 68,300 acre-ft (84.2 hm^3). Ordinary minimum (conservation) pool elevation, 628.00 ft or 191.414 m (capacity, 41,250 acre-ft or 50.9 hm^3). Dead storage is 1,390 acre-ft (1.71 hm^3). Reservoir is used for recreation, flood control, low flow augmentation and water supply. Figures given herein represent total contents. Regulation is accomplished by a multi-level water-quality outlet system and two flood-control gates. Records furnished by Corps of Engineers.

01455400 **LAKE HOPATCONG.**--Lat 40°55'00", long 74°39'50", Morris County, in gatehouse of Lake Hopatcong Dam on Musconetcong River at Landing. Drainage area, 25.6 mi^2 (66.3 km^2). Period of record, February 1887 to current year. Monthend contents only prior to October 1950, published in WSP 1302. Gage, water-stage recorder. Prior to June 24, 1928, daily readings obtained by measuring from high-water mark to water surface converted to gage height, present datum. Datum of gage is 914.57 ft (278.761 m) above mean sea level (New Jersey Geological Survey datum). Extremes for current year: Maximum contents, about 8,424,000,000 gal (31.88 hm^3) about July 15 (gage height e10.14 ft); minimum, about 5,427,000,000 gal (20.54 hm^3) about Dec. 27 (gage height e6.48 ft). Extremes for period of record: Maximum contents, 8,532,000,000 gal (32.29 hm^3) June 24, 1972 (gage height 10.27 ft or 3.130 m); minimum, 1,525,000,000 gal (5.77 hm^3) Dec. 29, 1960 (gage height, 0.65 ft or 0.198 m).

Lake is formed by concrete spillway and earthfill dam completed about 1828. Crest of spillway was lowered 0.11 ft (0.034 m) in 1925. Usable capacity, 7,459,000,000 gal (28.23 hm^3) between (gage height -2.6 ft or -0.792 m, sills of gates and 9.00 ft or 2.743 m, crest of spillway). Flow regulated by four gates (3 by 5 ft or 0.914 by 1.524 m), also by one 24-inch (0.610 m) pipe with gate valve to recreation fountain 250 ft (76.2 m) downstream from dam. Dead storage, about 8,117,000,000 gal (30.72 hm^3). Figures given herein represent usable capacity. Lake used for recreation.

01469200 **STILL CREEK RESERVOIR.**--Lat 40°51'25", long 75°59'30", Schuylkill County, Pa., at dam on Still Creek, 1 mi (1.6 km) upstream from mouth and 2.3 mi (3.7 km) north of Hometown, Pa. Drainage area, 8.5 mi^2 (22.0 km^2). Period of record, January 1933 to current year. Nonrecording gage. Datum of gage is at mean sea level (levels by Panther Valley Water Co.). Extremes for current year: Maximum contents, 8,410 acre-ft (10.4 hm^3) July 26 (elevation, 1,182.42 ft or 360.402 m); minimum, 8,040 acre-ft (9.91 hm^3) Nov. 30 (elevation, 1,181.17 ft or 360.021 m). Extremes for period of record: Maximum contents, 8,570 acre-ft (10.6 hm^3) Oct. 15, 1955 (elevation, 1,182.92 ft or 360.554 m), but may have been greater during 1950 and 1951 water years; minimum (after initial filling), 588 acre-ft (0.725 hm^3) Dec. 8, 1944 (elevation, 1,136.70 ft or 346.466 m).

Reservoir formed by earth fill dam, with ungated concrete spillway at elevation 1,182.00 ft (360.274 m). Storage began in February 1933. Capacity at elevation 1,182.00 ft (360.274 m) is 8,290 acre-ft (10.2 hm^3). Reservoir is used for municipal water supply. Figures given herein represent total contents. Regulation is accomplished by valves on pipe through dam. Records furnished by Panther Valley Water Co.

01472200 **GREEN LANE RESERVOIR.**--Lat 40°20'30", long 75°28'45", Montgomery County, Pa., at dam on Perkiomen Creek at Green Lane, Pa., 0.4 mi (0.6 km) west of Green Lane and 2.1 mi (3.4 km) upstream from Unami Creek. Drainage area, 70.9 mi^3 (183.6 km^3). Period of record, December 1956 to current year. Gage, water-stage records. Datum of gage is at mean sea level (levels by Philadelphia Suburban Water Co.). Extremes for current year: Maximum contents, 14,410 acre-ft (17.8 hm^3) Mar. 19 (elevation, 287.10 ft or 87.109 m); minimum, 13,240 acre-ft (16.3 hm^3) Sept. 11 (elevation, 285.79 ft or 87.109 m). Extremes for period of record: Maximum contents, 17,030 acre-ft (21.0 hm^3) June 23, 1972 (elevation, 290.05 ft or 88.407 m); minimum (after first filling), 1,270 acre-ft (1.57 hm^3) Aug. 25, 1957 (elevation, 251.60 ft or 76.688 m).

Reservoir formed by concrete, gravity-type dam, with ungated spillway at eleveation 286.00 ft (87.173 m). Storage began December 21, 1956. Capacity at spillway level (elevation 286.00 ft or 87.173 m), 13,430 acre-ft (16.6 hm^3). Reservoir is used for municipal water supply. Figures given herein represent total contents. Regulation is accomplished by valves on pipe through dam. Records furnished by Philadelphia Suburban Water Co.

Reservoirs in Delaware River basin--Continued

MONTHEND ELEVATION AND CONTENTS, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

Date	Elevation (feet)	Contents (million gallons)	Change in contents (equivalent in cfs)	Elevation (feet)	Contents (million gallons)	Change in contents (equivalent in cfs)
	01416900 Pepacton Reservoir‡			01424997 Cannonsville Reservoir‡		
Sept. 30	1,269.49	131,132	-	1,151.50	101,032	-
Oct. 31	1,267.12	127,110	-201	1,150.10	98,779	-112
Nov. 30	1,269.12	130,498	+175	1,151.02	100,259	+76.3
Dec. 31	1,276.63	143,657	+657	1,150.45	99,342	-45.8
CAL YR 1974	-	-	+21.1	-	-	-6.48
Jan. 31	1,280.35	150,448	+339	1,151.64	101,257	+95.6
Feb. 28	1,280.65	151,003	+30.7	1,152.39	102,465	+66.8
Mar. 31	1,280.36	150,466	-26.8	1,151.44	100,935	-76.4
Apr. 30	1,280.08	149,947	-26.8	1,150.50	99,422	-78.0
May 31	1,279.62	149,100	-42.3	1,150.44	99,326	-4.79
June 30	1,278.73	147,466	-84.3	1,150.08	98,747	-29.9
July 30	1,277.25	144,776	-134	1,150.34	99,165	+20.9
Aug. 31	1,273.21	137,579	-359	1,146.98	94,024	-257
Sept. 30	1,272.65	136,598	-50.6	1,151.59	101,177	+369
WTR YR 1975	-	-	+23.2	-	-	+.61

Date	Elevation (feet)	Contents (acre-feet)	Change in contents (equivalent in cfs)	Elevation (feet)	Contents (acre-feet)	Change in contents (equivalent in cfs)
	01428900 Prompton Reservoir†			01429400 General Edgar Jadwin Reservoir†		
Sept. 30	1,126.30	3,680	-	977.13	0	-
Oct. 31	1,125.30	3,500	-4.6	975.27	0	0
Nov. 30	1,125.50	3,560	+1.0	976.34	0	0
Dec. 31	1,125.60	4,590	+.5	976.72	18	0
CAL YR 1974	-	-	-1.6	-	-	0
Jan. 31	1,129.90	4,916	+21.5	976.03	0	0
Feb. 28	1,128.40	4,430	-8.6	979.99	50	+.9
Mar. 31	1,126.40	3,810	-10.1	978.04	1	-.8
Apr. 30	1,125.40	3,530	-4.7	976.28	0	0
May 31	1,125.50	3,560	+.5	977.09	0	0
June 30	1,126.90	3,950	+6.6	977.64	0	0
July 31	1,125.35	3,520	-7.0	975.47	0	0
Aug. 31	1,125.90	3,670	+[illegible].4	976.15	0	0
Sept. 30	1,126.55	3,780	+3.0	976.84	0	0
WTR YR 1975	-	-	+.1	-	-	0

Date	Elevation (feet)	Contents (millions of cubic feet)	Change in contents (equivalent in cfs)	Elevation (feet)	Contents (millions of cubic feet)	Change in contents (equivalent in cfs)
	01431700 Lake Wallenpaupack†			01433000 Swinging Bridge Reservoir†		
Sept. 30	1,178.70	94,580	-	1,066.3	1,241	-
Oct. 31	1,177.20	86,480	-132	1,065.7	1,218	-8.6
Nov. 30	1,179.80	100,520	+236	1,066.0	1,229	+4.2
Dec. 31	1,183.00	118,000	+284	1,063.2	1,124	-39.1
CAL YR 1974	-	-	-26.2	-	-	-6.4
Jan. 31	1,182.60	115,800	-35.8	1,063.0	1,117	-2.6
Feb. 28	1,181.10	107,550	-149	1,069.9	1,383	+110
Mar. 31	1,180.90	106,460	-17.7	1,070.7	1,457	+27.6
Apr. 30	1,182.80	116,900	+175	1,065.2	1,210	-95.1
May 31	1,186.80	139,360	+365	1,065.2	1,199	-4.1
June 30	1,185.30	130,880	-143	1,064.1	1,158	-15.8
July 31	1,182.30	114,150	-272	1,067.8	1,299	+52.5
Aug. 31	1,181.00	107,000	-116	1,068.9	1,343	+16.4
Sept. 30	1,180.50	104,300	-45.4	1,066.0	1,229	-43.9
WTR YR 1975	-	-	+13.4	-	-	-.4

Reservoirs in Delaware River basin--Continued

MONTHEND ELEVATION AND CONTENTS, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

Date	01433100 Toronto Reservoir† Elevation (feet)	Contents (millions of cubic feet)	Change in contents (equivalent in cfs)	01433200 Cliff Lake Reservoir† Elevation (feet)	Contents (millions of cubic feet)	Change in contents (equivalent in cfs)
Sept. 30	1,205.5	658	-	1,069.7	117	-
Oct. 31	1,195.2	404	-94.6	1,070.4	123	+2.2
Nov. 30	1,188.0	262	-54.7	1,070.0	120	-1.2
Dec. 31	1,195.6	413	+56.2	1,066.0	90.3	-11.1
CAL YR 1974	-	-	-2.3	-	-	-1.4
Jan. 31	1,202.3	574	+60.0	1,062.9	70.5	-7.4
Feb. 28	1,208.2	731	+64.7	1,069.5	116	+18.8
Mar. 31	1,214.7	920	+70.4	1,071.0	128	+4.5
Apr. 30	1,218.3	1,039	+45.8	1,065.6	87.6	-15.6
May 31	1,220.2	1,098	+22.0	1,067.7	102	+5.4
June 30	1,219.1	1,067	-11.9	1,066.1	91.0	-4.2
July 31	1,211.7	830	-88.5	1,070.2	121	+11.2
Aug. 31	1,204.0	618	-79.0	1,071.2	129	+3.0
Sept. 30	1,200.2	521	-37.3	1,066.5	93.7	-13.6
WTR YR 1975	-	-	-.6	-	-	-.7

Date	01435900 Neversink Reservoir‡ Elevation (feet)	Contents (million gallons)	Change in contents (equivalent in cfs)	01447780 Francis E. Walter Lake‡ Elevation (feet)	Contents (million gallons)	Change in contents (equivalent in cfs)
Sept. 30	1,403.46	21,578	-	1,304.55	2,460	-
Oct. 31	1,393.67	18,192	-169	1,300.60	2,060	-6.5
Nov. 30	1,392.33	17,756	-22.5	1,301.60	2,160	+1.7
Dec. 31	1,402.13	21,097	+167	1,301.02	2,100	-1.0
CAL YR 1974	-	-	-29.2	-	-	-8.0
Jan. 31	1,405.14	22,192	+54.7	1,302.78	2,280	+2.9
Feb. 28	1,414.36	25,734	+196	1,343.10	9,660	+133
Mar. 31	1,430.66	32,702	+348	1,304.80	2,490	-117
Apr. 30	1,436.81	35,589	+149	1,299.05	1,900	-9.9
May 31	1,437.83	36,081	-24.6	1,302.25	2,220	+5.2
June 30	1,437.40	35,874	-10.7	1,303.75	2,380	+2.7
July 31	1,428.77	31,844	-201	1,300.98	2,100	-4.6
Aug. 31	1,414.10	25,630	-310	1,300.70	2,070	-.5
Sept. 30	1,404.73	22,041	-185	1,301.40	2,140	+1.2
WTR YR 1975	-	-	+2.0	-	-	-.4

Date	01449400 Penn Forest Reservoir† Elevation (feet)	Contents (acre-feet)	Change in contents (equivalent in cfs)	01449700 Wild Creek Reservoir† Elevation (feet)	Contents (acre-feet)	Change in contents (equivalent in cfs)
Sept. 30	996.56	18,430	-	816.69	11,170	-
Oct. 31	996.16	18,250	-2.9	814.68	10,610	-10.4
Nov. 30	996.65	18,470	+3.7	810.76	9,530	-18.2
Dec. 31	999.75	19,870	+22.8	818.13	1,570	+33.2
CAL YR 1974	-	-	-.5	-	-	-.8
Jan. 31	1,000.26	20,130	+4.2	820.21	12,060	+8.0
Feb. 28	1,000.44	20,240	+2.0	820.56	12,170	+2.0
Mar. 31	1,000.24	20,120	-2.0	820.28	12,080	-1.5
Apr. 30	1,000.06	20,010	-1.8	820.10	12,030	-.8
May 31	1,000.16	20,070	+1.0	820.11	12,030	0
June 30	1,000.35	20,180	+1.8	820.52	12,160	+2.2
July 31	1,000.17	20,080	-1.6	820.18	12,050	-1.8
Aug. 31	1,000.09	20,030	-.8	818.60	11,700	-5.7
Sept. 30	999.79	19,880	-2.5	819.03	11,810	+1.8
WTR YR 1975	-	-	+2.0	-	-	+.9

Reservoirs in Delaware River basin--Continued

MONTHEND ELEVATION AND CONTENTS, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

Date	Gage Height (feet)	Contents (million gallons)	Change in contents (equivalent in cfs)	Elevation (feet)	Contents (acre-feet)	Change in contents (equivalent in cfs)
	01455400 Lake Hopatcong†			01469200 Still Creek Reservoir†		
Sept. 30	a8.86	7,343	-	1,182.06	8,300	-
Oct. 31	e6.86	5,724	-80.8	1,181.50	8,140	-2.6
Nov. 30	e6.90	5,756	+1.7	1,181.17	8,040	-1.7
Dec. 31	*6.48	5,427	-16.4	1,182.04	8,300	+4.2
CAL YR 1974	-	-	-7.1	-	-	-.1
Jan. 31	7.08	5,897	+23.5	1,182.08	8,310	+.2
Feb. 28	7.10	5,913	+.9	1,182.12	8,320	+.2
Mar. 31	9.30	7,711	+89.7	1,182.12	8,320	0
Apr. 30	9.24	7,661	-2.6	1,182.04	8,300	-.3
May 31	9.30	7,711	+2.5	1,182.02	8,290	-.2
June 30	9.28	7,694	-.9	1,182.06	8,300	+.2
July 31	9.33	7,736	+2.1	1,182.12	8,320	+.3
Aug. 31	9.16	7,593	-7.1	1,181.83	8,240	-1.3
Sept. 30	8.18	6,783	-41.8	1,182.25	8,360	+2.0
WTR YR 1975	-	-	-2.4	-	-	+.1

Date	Elevation (feet)	Contents (acre-feet)	Change in contents (equivalent in cfs)	Elevation (feet)	Contents (acre-feet)	Change in contents (equivalent in cfs)
	01472200 Green Lane Reservoir†			01449790 Beltzville Lake†		
Sept. 30	286.04	13,560	-	628.20	41,440	-
Oct. 31	286.00	13,430	-2.1	628.00	41,250	-3.1
Nov. 30	285.90	13,340	-1.5	628.00	41,250	0
Dec. 31	286.05	13,480	+2.3	628.00	41,250	0
CAL YR 1974	-	-	-.1	-	-	-.4
Jan. 31	286.15	13,560	+1.3	628.20	41,440	+3.1
Feb. 28	286.15	13,560	0	630.60	43,880	+42.5
Mar. 31	286.12	13,540	-.3	628.10	41,340	-40.0
Apr. 30	286.09	13,490	-.8	627.80	41,060	-4.7
May 31	286.49	13,870	+6.2	627.90	41,160	+1.6
June 30	286.01	13,440	-7.2	630.00	43,200	+34.3
July 31	286.00	13,430	-.2	628.20	41,440	-28.6
Aug. 31	285.91	13,350	-1.3	627.70	40,960	-7.8
Sept. 30	286.09	13,470	+2.0	627.90	41,160	+3.4
WTR YR 1975	-	-	-.1	-	-	-.4

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‡ Elevation at 0900 hours on first day of following month.
† Elevation or gage height at 2400 hours.
a Observed.
e Estimated.
* Elevation at 0900 hours.

DIVERSIONS AND WITHDRAWALS

Withdrawals from the Delaware River basin

01415200 Diversion from Pepacton Reservoir, N.Y., (see below) on East Branch Delaware River to Rondout Reservoir on Rondout Creek, in Hudson River basin, for municipal supply of City of New York. No diversion prior to Jan. 6, 1955. Records furnished by Board of Water Supply and Department of Water Resources, City of New York. REVISIONS (Water Years).--WRD N.Y. 1972: 1970.

01423900 Diversion from Cannonsville Reservoir, N.Y., (see below) on West Branch Delaware River to Rondout Reservoir on Rondout Creek, in Hudson River basin, for municipal supply of City of New York. No diversion prior to Jan. 29, 1964. Records furnished by Board of Water Supply, City of New York.

01435800 Diversion from Neversink Reservoir, N.Y., (see below) on Neversink River to Rondout Reservoir on Rondout Creek, in Hudson River basin, for municipal supply of City of New York. No diversion prior to Dec. 3, 1953. Records furnished by Board of Water Supply and Department of Water Resources, City of New York.

01436520 Village of Woodbridge, N.Y., diverts water from East Pond Reservoir, tributary to Neversink River, for municipal supply outside of basin. Records furnished by Delaware River Basin Commission.

01437360 Diversion from Bear Swamp Reservoir, tributary to Neversink River by the Otisville, New York State Training School for water supply outside of basin. Records furnished by Delaware River Basin Commission.

01447750 Diversion from Bear Creek, tributary to Lehigh River, by Bear Creek Gas and Water Company for water supply outside of basin. Records furnished by Delaware River Basin Commission.

01448830 Diversion from Hazle Creek Watershed by Hazelton Joint Sewerage Authority for municipal water supply. Waste effluent from the municipal water system is released to the Susquehanna River. Records furnished by Delaware River Basin Commission.

01460500 Diversion by Delaware and Raritan Canal from Delaware River at Raven Rock, N.J., for municipal and industrial use. Water is discharged into the Raritan River at New Brunswick, N.J. Records of discharge are collected on the Delaware and Raritan Canal at Kingston. (see sta 01460500).

01467480 Diversion from Mud Run, tributary to Schuylkill River by Mahonony Township Authority for municipal use outside of basin. Records furnished by Delaware River Basin Commission.

Withdrawals by City of New York

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

Month	Pepacton Reservoir	Cannonsville Reservoir	Neversink Reservoir
October	698	29.4	322
November	696	131	291
December	698	161	289
CAL YR 1974	660	91.2	292
January	698	121	215
February	696	107	141
March	568	89.7	125
April	543	66.5	303
May	552	52.6	410
June	543	68.1	243
July	645	26.3	453
August	678	0	399
September	696	0	402
WTR YR 1975	643	71.0	299

Miscellaneous withdrawals from basin

	East Pond Reservoir	Bear Swamp Reservoir	Bear Creek	Hazle Creek	Delaware & Raritan Canal	Mud Run	(*)
October	.5	.3	0	3.9	97.0	.05	(.05)
November	.5	.3	0	1.5	96.8	.05	(.05)
December	.5	.3	0	3.9	106	.05	(.08)
CAL YR 1974	.50	.30	.54	3.7	96.0	.06	1973..(.05)
January	.5	.3	0	4.6	102	.05	(.08)
February	.5	.3	0	3.9	99.8	.08	(.08)
March	.5	.3	3.4	3.9	89.6	.08	(.08)
April	.5	.3	1.9	3.9	98.1	.08	(.08)
May	.5	.3	7.7	3.9	96.2	.08	(.08)
June	.5	.3	0	3.9	97.5	.08	(.08)
July	.5	.3	0	3.9	86.0	.08	(.05)
August	.5	.3	0	3.9	90.3	.08	(.05)
September	.5	.3	0	3.9	93.1	.08	(.05)
WTR YR 1975	.5	.3	1.1	3.8	96.0	.07	1974..(.07)

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* Figures for water year 1973-74 as published in WRD-NJ 1974 are in error, corrected figures appear in parentheses ( ).

Diversions and Withdrawals--Continued

Diversions within the Delaware River basin

01463480 Diversion from the Delaware River at the Morrisville Filtration Plant for municipal supply, by the Borough of Morrisville, Pa. The water withdrawn at this site is returned to the basin after treatment, only slightly diminished by consumptive uses and losses in transmission. Records furnished by the Borough of Morrisville, Pa.

01463500 Diversion from the Delaware River just above the Trenton gaging station for municipal supply by the city of Trenton, N.J. The water being withdrawn is returned to the basin after treatment only slightly diminished by consumptive uses and losses in transmission. Records furnished by the city of Trenton.

01467030 Diversion from the Delaware River at the Torresdale Intake for municipal supply, by the city of Philadelphia, Pa. The water being withdrawn at this intake is returned to the basin after treatment only slightly diminished by consumptive uses and losses in transmission. Records furnished by the Delaware River Basin Commission.

01474500 Diversion from the Schuylkill River at the Belmont and Queen Lanes Intakes for municipal supply, by the city of Philadelphia, Pa. The water being withdrawn at these intakes is returned after treatment within the Delaware River basin only slightly diminished by consumptive uses and losses in transmission. Records furnished by the Delaware River Basin Commission.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

Month	Withdrawal Borough of Morrisville	Withdrawal City of Trenton	Withdrawal City of Philadelphia		
			Schuylkill River		Delaware River
			Belmont	Queen Lane	Torresdale
October	6.5	58.0	105	150	340
November	6.8	53.4	105	152	342
December	7.1	50.3	105	144	340
CAL YR 1974	5.9	55.9	104	165	347
January	7.2	52.1	107	152	333
February	6.8	51.6	104	155	336
March	6.6	50.0	104	169	316
April	6.3	50.4	102	166	326
May	6.1	53.6	108	172	340
June	5.7	55.5	113	176	353
July	6.2	55.0	119	187	356
August	5.9	59.3	122	207	365
September	6.2	50.2	107	176	326
WTR YR 1975	6.5	53.3	108	167	339

Diversions imported into basin

01367630 Water diverted from Morris Lake, tributary to the Wallkill River, by the Newton Water and Sewer Authority for municipal use. After use, the water is released into the Paulins Kill (Delaware River basin). Records furnished by the Delaware River Basin Commission.

01578420 Water diverted from West Branch Octoraro Creek at the McCray Plant of the Octoraro Water Co., for municipal use. After use, the water is released into the Delaware River basin. Records furnished by the Delaware River Basin Commission.

01578450 Water diverted from Octoraro Lake by Chester Water Authority for municipal use. After use, the water is released into the Delaware River basin. Records furnished by the Delaware River Basin Commission.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

Month	Morris Lake	Octoraro Creek	
		Octoraro Water Co.	Chester Water Authority
October	1.55	2.00	41.5
November	1.59	1.98	42.7
December	1.64	2.06	43.8
CAL YR 1974	1.54	2.02	44.0
January	1.53	2.01	43.0
February	1.50	1.96	43.3
March	1.58	1.87	42.4
April	1.59	1.95	43.9
May	1.67	1.90	45.2
June	1.66	2.04	45.5
July	1.64	2.12	44.6
August	1.64	2.17	45.5
September	1.70	2.10	44.4
WTR YR 1975	1.61	2.01	43.8

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

As the number of streams on which streamflow information is likely to be desired far exceeds the number of stream-gaging stations feasible to operate at one time, the Geological Survey collects limited streamflow data at sites other than stream-gaging stations. When limited streamflow data are collected on a systematic basis over a period of years for use in hydrologic analyses, the site at which the data are collected is called a partial-record station. Data collected at these partial-record stations are usable in low-flow or floodflow analyses, depending on the type of data collected. In addition, discharge measurements are made at other sites not included in the partial-record program. These measurements are generally made in times of drought or flood to give better areal coverage to those events. Those measurements and others collected for some special reason are called measurements at miscellaneous sites.

Records collected at partial-record stations are presented in two tables. The first is a table of discharge measurements at low-flow partial-record stations, and the second is a table of annual maximum stage and discharge at crest-stage stations. Discharge measurements made at miscellaneous sites for both low flow and high flow are given in a third table.

Low-flow partial-record stations

Measurements of streamflow in New Jersey made at low-flow partial-record stations are given in the following table. Most of these measurements were made during periods of base flow when streamflow is primarily from ground-water storage. These measurements, when correlated with the simultaneous discharge of a nearby stream where continuous records are available, will give a picture of the low-flow potentiality of a stream. The column headed "Period of record" shows the water years in which measurements were made at the same, or practically the same, site.

Discharge measurements made at low-flow partial-record stations

Station number	Station name	Location	Drainage area (mi^2)	Period of record	Measurements	
					Date	Discharge (ft^3/s)
		Hackensack River basin				
*01377475	Musquapsink Brook near Westwood, N.J.	Lat 40°59'41", long 74°03'42", Bergen County, at culvert on Pascack Road in Washington Borough, 1.5 mi (2.4 km) west of Westwood and 5.3 mi (8.5 km) upstream from mouth.	2.16 (5.59 km^2)	1964-72, 1975	3-13-75	3.7
01378410	Dwars Kill at Norwood, N.J.	Lat 40°59'01", long 73°57'35", Bergen County, at bridge on Blanche Avenue at Norwood, 0.2 mi (0.3 km) upstream from mouth.	4.23 (10.96 km^2)	1973-75	9-10-75	.74
01378430	Tenakill Brook tributary at Norwood, N.J.	Lat 40°59'06", long 73°57'39", Bergen County, at Blanche Avenue at Norwood, 1.0 mi (1.6 km) east of Harrington Park, 1.5 mi (2.4 km) upstream from Oradell Reservoir.	2.03 (5.26 km^2)	1973-75	9-10-75	.48
		Passaic River basin				
01379200	Dead River near Millington, N.J.	Lat 40°38'56", long 74°31'26", Somerset County, at bridge on King George Road (Spur State 527), 100 ft (30 m) above mouth, and 2.0 mi (3.2 km) south of Millington.	20.8 (53.9 km^2)	1962-67, 1973-75	5-22-75	19
01382870	Belcher Creek at Stowaway Road at West Milford, N.J.	Lat 41°07'27", long 74°22'48", Passaic County, at bridge on Stowaway Road in West Milford, at entrance to Pinecliff Lake, 2.8 mi (4.5 km) upstream from mouth.	2.44 (6.32 km^2 revised)	1973-75	9-09-75	3.2
01382880	Belcher Creek tributary at West Milford, N.J.	Lat 41°08'06", long 74°22'34", Passaic County, at bridge on Bearfort Road in West Milford, 150 ft (46 m) upstream from mouth, 3.9 mi (6.3 km) west of Hewitt.	0.61 (1.58 km^2)	1973-75	9-09-75	0
01382890	Belcher Creek at West Milford, N.J.	Lat 41°08'15", long 74°22'04", Passaic County, at bridge on Union Valley Road, 150 ft (46 m) downstream from Pinecliff Lake Dam, 0.4 mi (0.6 km) from West Milford, 1.6 mi (2.6 km) from mouth.	7.27 (18.83 km^2)	1973-75	9-09-75	4.3
01382910	Morsetown Brook at West Milford, N.J.	Lat 41°08'13", long 74°21'18", Passaic County, at bridge on Lincoln Avenue, 0.4 mi (0.6 km) upstream from mouth, 0.9 mi (1.4 km) northeast of West Milford.	1.31 (3.39 km^2)	1973-75	9-09-75	.10

See footnotes at end of table, p. 156.

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

Discharge measurements made at low-flow partial-record stations--Continued

Station number	Station name	Location	Drainage area (mi^2)	Period of record	Measurements	
					Date	Discharge (ft^3/s)
		Passaic River basin--Continued				
01382960	Green Brook near West Milford, N.J.	Lat 41°09'09", long 74°21'34", Passaic County, at bridge on Union Valley Road, 0.4 mi (0.6 km) upstream from mouth, 1.6 mi (2.6 km) north of West Milford.	1.47 (3.81 km^2)	1973-75	9-09-75	1.1
01382990	Cooley Brook near West Milford, N.J.	Lat 41°09'16", long 74°21'27", Passaic County, at bridge on Union Valley Road, 0.1 mi (0.2 km) upstream from mouth, 1.8 mi (2.9 km) north of West Milford.	1.34 (3.47 km^2)	1973-75	9-09-75	.86
01387980	Haycock Brook at Pompton Lakes, N.J.	Lat 40°59'40", long 74°16'28", Passaic County, at bridge on U.S. Route 202 at Pompton Lakes, 150 ft (46 m) upstream from mouth.	4.18 (10.83 km^2)	1963-64, 1973-75	9-10-75	1.7
*01390450	Saddle River at Upper Saddle River, N.J.	Lat 41°03'32", long 74°05'44", Bergen County, at culvert on Lake Street in Upper Saddle River, 1.3 mi (2.1 km) downstream from Pine Brook.	10.9 (28.2 km^2)	1964-72, 1975	5-13-75	18
		Raritan River basin				
01396070	South Branch Raritan River tributary No. 6 at Budd Lake, N.J.	Lat 40°52'20", long 74°44'18", Morris County, at bridge on Shore Road, 300 ft (90 m) upstream from mouth, 0.6 mi (1.0 km) north of community of Budd Lake.	0.70 (1.81 km^2)	1973-75	9-09-75	.53
01396080	South Branch Raritan River tributary No. 7 at Budd Lake, N.J.	Lat 40°52'06", long 74°44'22", Morris County, at bridge on U.S. Route 46, 300 ft (90 m) upstream from mouth, 0.3 mi (0.5 km) north of community of Budd Lake.	0.21 (0.54 km^2)	1973-75	9-09-75	.02
01396090	South Branch Raritan River at outlet of Budd Lake, N.J.	Lat 40°51'38", long 74°45'38", Morris County, at bridge on Smithtown Road, 200 ft (60 m) northwest of U.S. Route 46, and 0.5 mi (0.8 km) downstream from Budd Lake dam.	5.03 (13.03 km^2)	1964, 1973-75	9-09-75	3.1
01396180	Drakes Brook at Bartley, N.J.	Lat 40°48'43", long 74°43'45", Morris County, at bridge on Bartley Road, 0.2 mi (0.3 km) upstream from mouth, 0.9 mi (1.4 km) southwest of Bartley, and 2.5 mi (4.0 km) northwest of Chester.	16.6 (43.0 km^2)	1964-73, 1975	8-22-75	22
01396280	South Branch Raritan River at Middle Valley, N.J.	Lat 40°45'40", long 74°49'18", Morris County, at bridge on Middle Valley Road at Middle Valley, 2.7 mi (4.3 km) southeast of Long Valley and 6.9 mi (11.1 km) downstream from Drakes Brook.	47.6 (123.3 km^2)	1963-67, 1973-75	8-21-75	59
01396590	Spruce Run near High Bridge, N.J.	Lat 40°40'26", long 74°55'04", Hunterdon County, at bridge on Van Syckels Corner Road, at inlet to Spruce Run Reservoir, 1.3 mi (2.1 km) northwest of High Bridge.	13.1 (33.9 km^2)	1973-75	9-09-75	15
01396660	Mulhockaway Creek at Van Syckel, N.J.	Lat 40°38'51", long 74°58'09", Hunterdon County, at bridge on Jutland Road, 0.2 mi (0.3 km) south of Van Syckel, 2.7 mi (4.3 km) upstream from mouth.	11.8 (30.6 km^2)	1973-75	9-09-75	7.2
01396670	Mulhockaway Creek tributary at Van Syckel, N.J.	Lat 40°39'05", long 74°58'13", Hunterdon County, at bridge on secondary road at Van Syckel, 0.4 mi (0.6 km) upstream from mouth.	2.76 (7.15 km^2)	1973-75	9-09-75	2.2

See footnotes at end of table, p. 156.

Discharge measurements made at low-flow partial-record stations--Continued

Station number	Station name	Location	Drainage area (mi^2)	Period of record	Measurements Date	Measurements Discharge (ft^3/s)
		Raritan River basin--Continued				
01398850	Peapack Brook at Far Hills, N.J.	Lat 40°41'28", long 74°38'52", Somerset County, at bridge on light-duty road, 0.1 mi (0.2 km) upstream from mouth, and 0.7 mi (1.1 km) northwest of Far Hills.	11.6 (30.0 km^2)	1964-67, 1973-75	8-19-75	14
01404300	Lawrence Brook at outlet of Davidsons Mill Pond, N.J.	Lat 40°24'46", long 74°29'58", Middlesex County, at bridge on Riva Avenue, at outlet of Davidsons Mill Pond, 0.6 mi (1.0 km) upstream from Oakeys Brook.	12.2 (31.6 km^2)	1973-75	9-09-75	7.1
01404400	Oakeys Brook near Patricks Corner, N.J.	Lat 40°25'05", long 74°29'56", Middlesex County, at bridge on Davidsons Mill Road, 0.5 mi (0.8 km) upstream from mouth, 1.2 mi (1.9 km) east of Patricks Corner.	4.75 (12.30 km^2)	1973-75	9-09-75	1.1
01404470	Ireland Brook at Patricks Corner, N.J.	Lat 40°25'13", long 74"29'05", Middlesex County, at bridge on Riva Avenue, 400 ft (120 m) upstream from mouth, 0.5 mi (0.8 km) southwest of Patricks Corner.	6.52 (16.89 km^2)	1973-75	9-09-75	3.4
01404700	Beaverdam Brook near Patricks Corner, N.J.	Lat 40°25'37", long 74°27'16", Middlesex County, at bridge on Fresh Ponds Road, 0.8 mi (1.3 km) upstream from mouth, 1.2 mi (1.9 km) east of Patricks Corner.	1.51 (3.91 km^2)	1973-75	9-09-75	.16
01405440	Manalapan Brook at Bridge Street at Spotswood, N.J.	Lat 40°23'26", long 74°23'26", Middlesex County, at bridge on Bridge Street in Spotswood, 400 ft (120 m) below DeVoe Lake Dam.	43.9 (113.7 km^2)	1973-75	9-09-75	34
01405470	Iresick Brook at East Spotswood, N.J.	Lat 40"23'35", long 74°21'36", Middlesex County, at bridge on Route 527 in East Spotswood, 0.6 mi (1.0 km) from mouth, 1.4 mi (2.3 km) south of Old Bridge.	2.29 (5.93 km^2)	1973-75	9-09-75	.45
		Cedar Creek basin				
01408800	Webbs Mill Branch near Whiting, N.J.	Lat 39°53'16", long 74°22'49", Ocean County, at bridge on Warren Grove-Whiting road, 3.3 mi (5.3 km) upstream from Chamberlain Branch, 4.5 mi (7.2 km) south of Whiting.	2.92 (7.56 km^2)	1973-75	9-10-75	4.5
01408810	Webbs Mill Branch tributary near Whiting, N.J.	Lat 39°53'29", long 74°22'52", Ocean County, at bridge on Warren Grove-Whiting road, 0.4 mi (0.6 km) upstream from mouth, 4.3 mi (6.9 km) south of Whiting.	0.53 (1.37 km^2)	1973-75	9-10-75	.17
		Mullica River basin				
*01409375	Mullica River near Atco, N.J.	Lat 39°47'08", long 74°51'38", Camden County, on left bank 50 ft (15 m) downstream from Jackson-Medford Road and 1.8 mi (2.9 km) northeast of Pennsylvania-Reading Seashore Lines railroad and Atco Street in Atco.	3.22 (8.34 km^2)	1975	3-20-75 9-10-75	18 3.4
01409390	Mullica River at Atsion, N.J.	Lat 39°44'19", long 74°43'20", Burlington County, at Central Railroad of New Jersey bridge in Atsion, 500 ft (152 m) downstream from Wesickaman Creek, and 0.3 mi (0.5 km) southeast of Atsion.	33.1 (85.7 km^2)	1975	9-04-75	31
01409395	Mullica River tributary near Atsion, N.J.	Lat 39°41'29", long 74°40'53", Atlantic County, 0.2 mi (0.3 km) upstream from mouth, 3.8 mi (6.1 km) northwest of Batsto, and 4.2 mi (6.8 km) southeast of Atsion.	4.10 (10.62 km^2)	1975	9-05-75	18

See footnotes at end of table, p. 156.

Discharge measurements made at low-flow partial-record stations--Continued

Station number	Station name	Location	Drainage area (mi^2)	Period of record	Measurements	
					Date	Discharge (ft^3/s)
		Mullica River basin--Continued				
*01409402 (Revised)	Hays Mill Creek near Chesilhurst, N.J.	Lat 39°45'02", long 74°50'28", Camden County, at bridge on Tremont Avenue, 0.5 mi (0.8 km) upstream from Cooper Branch, 2 mi (3.2 km) northeast of Chesilhurst and 2.8 mi (4.5 km) southeast of Atco.	7.13 (18.47 km^2)	1974-75	9-10-75	16
*01409403	Wildcat Branch at Chesilhurst, N.J.	Lat 39°44'04", long 74°51'33", Camden County, at culvert on Old White Horse Pike, 0.6 mi (1.0 km) north of Chesilhurst, 1.5 mi (2.4 km) upstream from mouth, and 2.9 mi (4.6 km) southeast of Atco.	1.03 (2.67 km^2)	1974-75	9-19-74 3-20-75 9-10-75	.11 1.6 .34
01409404	Sleeper Branch near Atsion, N.J.	Lat 39°42'46", long 74°44'36", Atlantic County, at bridge on U.S. Route 206, 0.1 mi (0.2 km) upstream from Clark Branch, 0.6 mi (1.0 km) south of Dutchtown, and 2.1 mi (3.4 km) south of Atsion.	18.2 (47.1 km^2)	1975	9-04-75	3.9
01409405	Clark Branch near Atsion, N.J.	Lat 39°42'42", long 74°44'39", Atlantic County, at bridge on U.S. Route 206, 0.1 mi (0.2 km) upstream from Sleeper Branch, 0.7 mi (1.1 km) south of Dutchtown, and 2.2 mi (3.5 km) south of Atsion.	7.12 (18.44 km^2)	1975	9-04-75	15
01409406	Sleeper Branch at Batsto, N.J.	Lat 39°38'48", long 74°39'39", Atlantic County, at foot bridge 600 ft (180 m) upstream from Mullica River, and 0.6 mi (1.0 km) northwest of Batsto.	36.1 (93.5 km^2)	1975	9-05-75	3.8
*01409407	Pump Branch near Blue Anchor, N.J.	Lat 39°42'22", long 74°53'04", Camden County, at highway bridge, 0.4 mi (0.6 km) upstream from Hobb Lake, and 1.2 mi (1.9 km) north of Blue Anchor.	6.20 (16.06 km^2)	1974-75	3-20-75 9-10-75	8.8 3.5
*01409409	Blue Anchor Brook near Blue Anchor, N.J.	Lat 39°41'17", long 74°51'00", Camden County, on upstream left side of bridge on Spring Garden Road, 1.8 mi (2.9 km) east of Blue Anchor, 1.8 mi (2.9 km) north of Winslow, and 2.2 mi (3.5 km) upstream from Albertson Brook.	3.01 (7.80 km^2)	1974-75	9-19-74 3-20-75 9-10-75	.66 4.5 1.4
01409410	Albertson Brook near Hammonton, N.J.	Lat 39°41'41", long 74°45'21", Atlantic County, at bridge on U.S. Route 206, 3.1 mi (5.0 km) downstream from confluence of Pump Branch and Blue Anchor Brook, 3.5 mi (5.6 km) south of Atsion, and 5.2 mi (8.4 km) northeast of Hammonton.	19.3 (50.0 km^2)	1975	9-05-75	23
01409411	Nescochague Creek at Pleasant Mills, N.J.	Lat 39°38'28", long 74°39'43", Atlantic County, at bridge on sand road in Pleasant Mills, 0.2 mi (0.3 km) upstream from Mullica River, and 0.6 mi (1.0 km) west of Batsto.	43.8 (113.4 km^2)	1975	9-05-75	44
01409460	Springers Brook near Atsion, N.J.	Lat 39°44'26", long 74°41'02", Burlington County, at site 110 ft (34 m) upstream from unnamed left-bank tributary, 700 ft (210 m) downstream from Deep Run, and 2.8 mi (4.5 km) east of Atsion.	21.2 (54.9 km^2)	1975	9-04-75	7.7
01409730	West Branch Wading River near Chatsworth, N.J.	Lat 39°45'43", long 74°32'27", Burlington County, at bridge on County Route 563, 0.6 mi (1.0 km) downstream from Pole Branch, and 2.9 mi (4.7 km) south of Chatsworth.	44.8 (116.0 km^2)	1975	9-05-75	27

See footnotes at end of table, p. 156.

Discharge measurements made at low-flow partial-record stations--Continued

Station number	Station name	Location	Drainage area (mi^2)	Period of record	Measurements Date	Measurements Discharge (ft^3/s)
		Mullica River basin--Continued				
01409780	Tulpehocken Creek near Jenkins, N.J.	Lat 39°42'51", long 74°33'58", Burlington County, at bridge on Maxwell-Friendship Road, 0.2 mi (0.3 km) upstream from mouth, and 2.3 mi (3.7 km) northwest of Jenkins.	21.9 (56.7 km^2)	1975	9-05-75	11
01409970	Oswego River at Oswego Lake, N.J.	Lat 39°43'53", long 74°29'31", Burlington County, at bridge on Little Hawkin Road at outlet of Oswego Lake, 0.6 mi (1.0 km) downstream from Breeches Branch, and 3.0 mi (4.8 km) northwest of Jenkins.	64.4 (116.8 km^2)	1975	9-05-75	38
		Great Egg Harbor River basin				
01410784	Great Egg Harbor River near Sicklerville, N.J.	Lat 39°44'02", long 74°57'05", Camden County, at bridge on Sicklerville-New Freedom Road (Spur 536), 1.5 mi (2.4 km) northeast of Sicklerville.	20.6 (53.4 km^2)	1971-75	10-03-74 12-08-74 1-09-75 9-09-75	7.6 32 34 8.3
01410803	Fourmile Branch at Winslow Crossing, N.J.	Lat 39°42'07", long 74°58'11", Camden County, 1.0 mi (1.6 km) south of Sicklerville and 2.0 mi (3.2 km) upstream from mouth.	6.24 (16.16 km^2)	1972-75	9-09-75	6.7
		Maurice River basin				
01411850	Mill Creek near Millville, N.J.	Lat 39°25'33", long 75°05'11", Cumberland County, at bridge on dirt road, 1.2 mi (1.9 km) upstream from mouth, 3.3 mi (5.3 km) northwest of Millville.	15.1 (39.1 km^2)	1973-75	9-09-75	12
		Delaware River basin				
01443450	Paulins Kill near Newton, N.J.	Lat 41°04'59", long 74°46'57", Sussex County, at bridge at inlet to Paulins Kill Lake, 2.4 mi (3.9 km) northwest of Newton.	69.0 (178.7 km^2)	1973-75	9-10-75	31
01443460	Paulins Kill at Paulins Kill, N.J.	Lat 41°03'08", long 74°49'42", Sussex County, at bridge on Paulins Kill Lake Road, 300 ft (90 m) downstream from Paulins Kill Lake, 0.45 mi (0.72 km) southwest of Paulins Kill.	72.9 (188.8 km^2)	1973-75	9-10-75	40
*01446000	Beaver Brook near Belvidere, N.J.	Lat 40°50'40", long 75°02'48", Warren County, on right bank, 2,000 ft (610 m) upstream from mouth and 2.0 mi (3.2 km) east of Belvidere.	36.2 (93.8 km^2)	1922-61‡, 1963-75	(a)	b24
01455370	Weldon Brook at Hurdtown, N.J.	Lat 40°58'10", long 74°35'56", Morris County, at bridge on Union Turnpike at Hurdtown, 500 ft (150 m) downstream fron Lake Shawnee Dam.	8.10 (20.98 km^2)	1973-75	9-10-75	1.55
01455550	Musconetcong River at Stanhope, N.J.	Lat 40°54'06", long 74°42'19", Morris County, at bridge on Route 206 at Stanhope, at outlet of Lake Musconetcong.	29.7 (76.9 km^2)	1973-75	9-10-75	115
01474950	Mantua Creek at Glassboro, N.J.	Lat 39°42'52", long 75°05'32", Gloucester County, at bridge at downstream end of Lake Oberst, and 1.5 mi (2.4 km) northeast of Glassboro.	1.20 (3.11 km^2)	1965-66, 1972, 1974-75	9-09-75	2.0
01474970	Mantua Creek at Greentree Road at Glassboro, N.J.	Lat 39°43'31", long 75°06'06", Gloucester County, at bridge on Greentree Road, 1.1 mi (1.8 km) upstream from Kressy Lake dam, and 1.3 mi (2.1 km) east of Pitman.	2.78 (7.20 km^2)	1965-66, 1972, 1974-75	9-09-75	5.4

See footnotes at end of table, p. 156.

Discharge measurements made at low-flow partial-record stations--Continued

Station number	Station name	Location	Drainage area (mi^2)	Period of record	Measurements	
					Date	Discharge (ft^3/s)
		Delaware River basin--Continued				
01482510	Nichomus Run near Woodstown, N.J.	Lat 39°38'22", long 75°20'59", Salem County, at bridge on State Route 45, 1.4 mi (2.3 km) southwest of Woodstown, and 1.7 mi (2.7 km) upstream from mouth.	3.76 9.74 km^2)	1966-72, 1974-75	10-09-74	*.42
01482520	Salem River at Sharptown, N.J.	Lat 39°39'09", long 75°22'05", Salem County, at bridge on Kings Highway (Salem-Sharptown Road) 0.2 mi (0.3 km) south of Sharptown, and 1.0 mi (1.6 km) upstream from Major Run.	27.3 (70. 7 km^2)	1966-72, 1974-75	10-09-74	*6.78
01482530	Major Run at at Sharptown, N.J.	Lat 39°38'56", long 75°22'29", Salem County, at bridge on Kings Highway (Salem-Sharptown Road), 0.4 mi (0.6 km) upstream from mouth, and 0.7 mi (1.1 km) southwest of Sharptown.	3.04 (7.87 km^2)	1966-72, 1974-75	10-09-74	*.60

* Also a crest-stage partial-record station.
‡ Operated as a continuous-record gaging station.
a Occurred during period Oct. 22 to Dec. 18, 1974.
b Minimum recorded during year; computed from inimum gage reading and rating, Discharge may have been lower at some time during year when gage was not operating.

Crest-stage partial record stations

The following table contains annual maximum discharges for crest-stage stations. A crest-stage gage is a device which will register the peak stage occurring between inspections of the gage. A stage-discharge relation for each gage is developed from discharge measurements made by indirect measurements of peak flow or by current meter. The date of the maximum discharge is not always certain but is usually determined by comparison with nearby continuous-record stations, weather records, or local inquiry. Only the maximum discharge for each water year is given. Information on some lower floods may have been obtained, and discharge measurements may have been made for purposes of establishing the stage-discharge relation, but these are not published herein. The years given in the period of record represent water years for which the annual maximum has been determined. The gage heights are heights on the upstream side of the bridge, above the dam or at the discontinued continuous-record gaging station unless otherwise noted.

Annual maximum discharge at crest-stage partial-record stations

Station No.	Station name	Location	Drainage area (mi^2)	Period of record	Annual maximum Date	Annual maximum Gage height (feet)	Annual maximum Discharge (cfs)
		Hackensack River basin					
*01377475	Musquapsink Brook near Westwood, N. J.	Lat 40°59'41", long 74°03'42", Bergen County, at bridge on Pascack Road in Washington Borough, 1.5 mi (2.4 km) west of Westwood, and 5.3 mi (8.5 km) above mouth.	2.16 (5.59 km^2)	1964-75	9-27-75	b4.67	†
01377490	Musquapsink Brook at Westwood, N. J.	Lat 40°59'11", long 74°02'03", Bergen County, at footbridge at Bogert Pond, 8 ft (2 m) upstream from dam near intersection of Mill Street and First Avenue in Westwood.	6.53 (16.9 km^2)	1966-75	9-27-75	1.27	205
*01378350	Tenakill Brook at Cresskill, N. J.	Lat 40°56'30, long 73°57'52", Bergen County, at bridge on Madison Avenue in Cresskill, 0.15 mi (0.24 km) west of Erie Lackawanna Railroad Station, and 3.3 mi (5.3 km) upstream from Oradell Reservoir. Datum of gage is 32.38 ft (9.87 m) above mean sea level.	3.01 (7.80 km^2)	1966-75	9-27-75	b4.63	210
*01378385	Tenakill Brook at Closter, N. J.	Lat 40°58'29", long 73°58'06", Bergen County, at bridge on High Street in Closter, 0.7 mi (1.1 km) upstream from mouth.	8.56 (22.2 km^2)	1965-75	9-27-75	b4.51	680
*01378590	Metzler Brook at Englewood, N. J.	Lat 40°54'32", long 73°59'40", Bergen County, at bridge on Lantana Avenue in Englewood, and 1.6 (2.6 km) upstream from mouth.	1.54 (3.99 km^2)	1965-75	9-27-75	ab2.33	180
*01378615	Wolf Creek at Ridgefield, N. J.	Lat 40°49'45", long 74°00'14", Bergen County, at bridge on Clark Avenue in Ridgefield and 0.9 mi (1.4 km) upstream from mouth.	1.18 (3.06 km^2)	1965-75	9-27-75	b6.59	310
		Passaic River basin					
01389900	Fleischer Brook at Market Street, Elmwood Park, N. J.	Lat 40°53'57", long 74°19'19", Bergen County, at culvert on Market Street in Elmwood Park (formerly East Paterson), and 2.0 mi (3.2 km) upstream from mouth. Datum of gage is 35.31 ft (10.76 m) above mean sea level.	1.37 (3.55 km^2)	1967-75	6-13-72 10-07-72 12-21-73 9-04-74 9-27-75	c3.47 c3.76 c3.20 3.37	178 200 155 170
*01390450	Saddle River at Upper Saddle River, N. J.	Lat 41°03'32", long 74°05'44", Bergen County, at culvert on Lake Street in Upper Saddle River, and 1.3 mi (2.1 km) downstream from Pine Brook.	10.9 (28.2 km^2)	1965-75	9-27-75	-	-
01390500	Saddle River at Ridgewood, N. J.	Lat 40°59'05", long 74°05'30", Bergen County, on left bank 15 ft (4.6 m) upstream from bridge on State Highway 17, in Ridgewood and 2.8 mi (4.5 km) upstream from Hohokus Brook.	21.6 (55.9 km^2)	1954-74‡, 1975	9-27-75	6.33	1,390

See footnotes at end of table, p. 164.

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

Crest-stage partial-record stations

Annual maximum discharge at crest-stage partial-record stations--Continued

Station No.	Station name	Location	Drainage area (mi²)	Period of record	Annual maximum		
					Date	Gage height (feet)	Discharge (cfs)
		Passaic River basin-Continued					
01390810	Hohokus Brook at Allendale, N. J.	Lat 41°01'37", long 74°08'44", Bergen County, at bridge on Brookside Avenue in Allendale, and 0.2 mi (0.3 km) downstream from Valentine Brook.	a9 (23.3 km²)	1969-75	9-27-75	6.90	720
01390900	Ramsey Brook at Allendale, N. J.	Lat 41°01'45", long 74°08'06", Bergen County, at bridge on Brookside Avenue in Allendale and 0.6 mi (1.0 km) upstream from Hohokus Brook.	2.55 (6.60 km²)	1975	9-27-75	b3.99	560
01391000	Hohokus Brook at Hohokus, N. J.	Lat 40°59'52", long 74°06'48", Bergen County, on left bank 500 ft (152 m) upstream from Maple Avenue Bridge in Hohokus, and 3.5 mi (5.6 km) upstream from mouth.	16.4 (42.5 km²)	1954-73‡, 1975	9-27-75	4.56	2,070
*01391485	Sprout Brook at Rochelle Park, N. J.	Lat 40°54'45", long 74°04'47", Bergen County, at bridge on Passaic Street in Rochelle Park, and 0.9 mi (1.4 km) upstream from mouth. Datum of gage is 33.25 ft (10.13 m) above mean sea level.	5.56 (14.4 km²)	1965-75	9-27-75	b4.22	330
01392000	Weasel Brook at Clifton, N. J.	Lat 40°52'12", long 74°08'47", Passaic County, at right end of masonry dam at Jewett Street in Clifton. Datum of gage is 68.52 ft (20.88 m) above mean sea level.	4.45 (11.5 km²)	1937-62‡, 1963-75	9-27-75	4.73	966
01392500	Second River at Belleville, N. J.	Lat 40°47'17", long 74°10'19", Essex County, on Mill Street in Branch Brook Park at Belleville, 300 ft (91 m) downstream from Franklin Avenue, and 1,100 ft (335 m) downstream from Hendricks Pond dam. Datum of gage is 62.6 ft (19.1 m) mean sea level.	11.6 (30.0 km²)	1937-64‡, 1965-75	9-26-75	7.07	3,310
01393810	East Fork East Branch Rahway River at West Orange, N. J.	Lat 40°46'10", long 74°14'37", Essex County, on left bank 75 ft (22.9 m) downstream from Central Avenue, on property of Monroe Sweda Corp., and on boundary between Orange and West Orange.	0.83 (2.15 km²)	1972-74‡, 1975	9-26-75	5.67	79
		Raritan River basin					
01397500	Walnut Brook near Flemington, N. J.	Lat 40°30'55", long 74°52'5[illegible]", Hunterdon County, on right bank 1.2 mi (1.9 km) northwest of Flemington, and 2.3 mi (3.7 km) upstream from mouth. Datum of gage is 267.33 ft (81.48 m) above mean sea level.	2.24 (5.80 km²)	1936-61‡, 1965-75	3-20-75	2.73	310
*01400850	Woodsville Brook at Woodsville, N. J.	Lat 40°22'37", long 74°49'33", Mercer County, at bridge on secondary road, 0.3 mi (0.5 km) southeast of Woodsville, and 0.8 mi (1.3 km) upstream from mouth.	1.78 (4.61 km²)	1957-58, 1964-75	3-20-75	3.58	392

See footnotes at end of table, p. 164 .

Crest-stage partial-record stations

Annual maximum discharge at crest-stage partial-record stations--Continued

Station No.	Station name	Location	Drainage area (mi^2)	Period of record	Annual maximum Date	Gage height (feet)	Discharge (cfs)
			Raritan River basin--Continued				
01400900	Stony Brook at Glenmoore, N. J.	Lat 40°21'55", long 74°47'14", Mercer County, at highway bridge on Spur State Route 518, 200 ft (61 m) east of tracks of Reading Railroad, at Glenmoore, and 2.0 mi (3.2 km) southwest of Hopewell.	17.0 (44.0 km^2)	1957-75	3-20-75	b7.65	2,850
*01400930	Baldwin Creek at Pennington, N. J.	Lat 40°20'18", long 74°47'50", Mercer County, at bridge on State Route 31, 0.8 mi (1.3 km) north of Pennington, and 0.9 mi (1.4 km) upstream from Baldwin Lake dam.	1.99 (5.15 km^2)	1957, 1960-75	7-14-75	5.84	295
*01400947	Stony Brook at Pennington, N. J.	Lat 40°19'50", long 74°46'05", Mercer County, 25 ft (7.6 m) upstream from dam on Stony Brook at Oldmill Road, 1.3 mi (2.1 km) east of Pennington, and 1.4 mi (2.3 km) downstream from Baldwin Creek. Datum of gage is 139.26 ft (42.45 m) above mean sea level.	26.5 (68.6 km^2)	1965-75	unknown	unknown	unknown
01400950	Hart Brook near Pennington, N. J.	Lat 40°19'17", long 74°45'38", Mercer County, at culvert on Federal City Road, 1.0 mi (1.6 km) upstream from mouth, and 1.7 mi (2.7 km) southeast of Pennington.	a0.8 (2.07 km^2)	1968-75	unknown	unknown	unknown
01400960	Honey Branch near Mount Rose, N. J.	Lat 40°21'17", long 74°45'29", Mercer County, at bridge on Mount Rose Road, 0.6 mi (1.0 km) northeast of Centerville, 1.4 mi (2.3 km) southwest of Mount Rose, and 2.5 mi (4.0 km) northeast of Pennington.	a1.5 (3.88 km^2)	1968-75	7-14-75	4.14	†
01400970	Honey Branch near Rosedale, N. J.	Lat 40°20'26", long 74°44'39", Mercer County, at bridge on Elm Ridge Road, 0.2 mi (0.3 km) upstream from mouth, 1.2 mi (1.9 km) west of Rosedale, and 2.0 mi (3.2 km) south of Mount Rose.	3.83 (9.92 km^2)	1967-75	7-14-75	8.71	1,270
01401200	Duck Pond Run at Clarksville, N. J.	Lat 40°18'24", long 74°40'06", Mercer County, at bridge on U.S. Route 1, 0.5 mi (0.8 km) upstream from Delaware and Raritan Canal, and 0.9 mi (1.4 km) northeast of Clarksville. Datum of gage is 54.14 ft (16.50 m) above mean sea level.	5.21 (13.5 km^2)	1965-75	7-21-75	7.34	540
*01401520	Beden Brook near Hopewell, N. J.	Lat 40°23'02", long 74°44'28", Mercer County, at bridge on Aunt Molly Road, 0.8 mi (1.3 km) upstream from Province Line Road, 1.1 mi (1.8 km) southeast of Hopewell, and 2.6 mi (4.2 km) southwest of Blawenburg. Datum of gage is 116.43 ft (35.49 m) above mean sea level.	6.07 (15.7 km^2)	1967-75	8-27-67	6.96	c1,800
					5-29-68	5.30	c860
					9-04-69	7.83	c2,530
					12-11-69	5.45	c925
					8-28-71	10.8	c6,520
					8-02-73	6.34	c1,400
					12-21-74	5.98	c1,190
					7-14-75	6.09	c1,250

See footnotes at end of table, p. 164.

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

Crest-stage partial-record stations

Annual maximum discharge at crest-stage partial-record stations--Continued

Station No.	Station name	Location	Drainage area (mi^2)	Period of record	Annual maximum		
					Date	Gage height (feet)	Discharge (cfs)
		Raritan River basin--Continued					
01401595	Rock Brook near Blawenburg, N. J.	Lat 40°25'47", long 74°41'05", Somerset County, at bridge on Burnt Hill Road, 0.7 mi (1.1 km) upstream from mouth, 1.0 mi (1.6 km) northeast of Blawenburg, and 2.8 mi (4.5 km) northwest of Rocky Hill. Datum of gage is 63.45 ft (19.34 m) above mean sea level.	9.03 ($23.4 km^2$)	1967-75	7-14-75	5.60	990
01401600	Beden Brook near Rocky Hill, N. J.	Lat 40°24'52", long 74°39'02", Somerset County, at bridge on U.S. Route 206, 0.7 mi (1.1 km) upstream from Pike Run, 1.2 mi (1.9 km) northwest of Rocky Hill, and 4.6 mi (7.4 km) north of Princeton. Datum of gage is 38.09 ft (11.61 m) above mean sea level.	27.6 ($71.5 km^2$)	1967-75	7-14-75	b12.75	6,500
01401870	Six Mile Run near Middlebush, N. J.	Lat 40°28'12', long 74°32'42", Somerset County, at bridge on South Middlebush Road, 1.6 mi (2.6 km) upstream from mouth, and 2.1 mi (3.4 km) south of Middlebush.	10.7 ($27.7 km^2$)	1966-75	7-14-75	11.4	2,300
01403450	Green Brook at North Plainfield, N. J.	Lat 40°38'15", long 74°24'55", Somerset County, at bridge on Leland Avenue, 0.23 mi (0.37 km) northwest of East Front Street, 0.16 mi (2.6 km) southeast of Green Brook Road in North Plainfield. Datum of gage is at mean sea level.	8.01 ($20.7 km^2$)	1972-75	6-21-72 8-02-73 12-21-73 7-15-75	120.76 124.31 121.17 123.65	1,050 unknown 1,350 unknown
01403600	Green Brook at Rock Avenue, Plainfield, N. J.	Lat 40°36'07", long 74°27'28", Somerset County, at bridge on Rock Avenue in Plainfield, 0.35 mi (0.56 km) north of West Front Street, and 0.65 mi (1.8 km) south of Route 22. Datum of gage is at mean sea level.	18.2 ($47.1 km^2$)	1972-75	6-21-72 8-02-73 12-21-73 7-15-75	53.92 58.33 52.96 55.91	1,900 10,400 1,400 3,800
01403700	Green Brook at Dunellen, N. J.	Lat 40°35'22", long 72°28'59", Middlesex County, at bridge on Warrenville Road, 0.12 mi (0.19 km) south of Green Brook Road, 1.0 mi (1.6 km) west of the Dunellen gage Datum of gage is at mean sea level.	20.7 ($53.4 km^2$)	1972-75	6-21-72 8-02-73 12-21-73 7-15-75	42.63 47.96 42.68 44.95	c2,000 c11,500 c2,000 c5,300
01403800	Green Brook at Green Brook, N. J.	Lat 40°35'09", long 74°29'57", Middlesex County, 300 ft (91.4 m) north of Middlesex Sewage Authority Disposal Plant, 0.4 mi (0.6 km) upstream from Bound Brook and 0.4 mi (0.6 km) north of Sebrings Mill Road. Datum of gage is at mean sea level.	23.3 ($60.3 km^2$)	1972-75	6-21-72 8-02-73 12-21-73 7-15-75	c37.29 c42.77 c38.46 c40.31	† † † †
		Manasquan River basin					
*01407830	Manasquan River near Georgia, N. J.	Lat 40°12'36", long 74°16'41", Monmouth County, at culvert on Jacksons Mill Road near Georgia, and 0.5 mi (0.8 km) upstream from Debois Creek.	10.6 ($27.5 km^2$)	1969-75	12-17-74	10.63	265

See footnotes at end of table, p.164.

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

Crest-stage partial-record stations

Annual maximum discharge at crest-stage partial-record stations--Continued

Station No.	Station name	Location	Drainage area (mi^2)	Period of record	Annual maximum Date	Annual maximum Gage height (feet)	Annual maximum Discharge (cfs)
		Manasquan River basin--Continued					
*01408015	Mingamahone Brook at Farmingdale, N. J.	Lat 40°11'38", long 74°09'42", Monmouth County, at bridge on Belmar Road in Farmingdale, and 3.0 mi (4.8 km) upstream from mouth.	6.22 (16.1 km^2)	1969-75	7-21-75	7.31	295
*01408030	Manasquan River at Allenwood, N. J.	Lat 40°08'35", long 74°07'03", Monmouth County, at bridge on Hospital Road at Allenwood, and 1.5 mi (2.4 km) downstream from Mill Run.	63.9 (166 km^2)	1969-75	9-27-75	11.24	3,700
		Mullica River basin					
01409375	Mullica River near Atco, N. J.	Lat 39°47'08", long 74°51'38", Burlington County, on left bank of small lake 50 ft (15 m) downstream from bridge on Jackson-Medford Road, 0.7 mi (1.1 km) north of intersection of Route 534 with Jackson-Medford Road, and 1.6 mi (2.6 km) east of Atco.	3.22 (8.34 km^2)	1975	7-15-75	4.62	44
01409402	Hays Mill Creek near Chesilhurst, N. J.	Lat 39°45'02", long 74°50'28", Camden County, at bridge on Tremont Avenue in Wharton State Forest, 2 mi (3.2 km) northeast of Chesilhurst, and 0.3 mi (0.5 km) northeast of Burnt Mills Road.	7.13 (18.5 km^2)	1975	7-15-75	3.80	56
01409407	Pump Branch near Blue Anchor, N. J.	Lat 39°42'22", long 74°53'04", Camden County, at bridge on Barret Avenue, 0.4 mi (6 km) upstream from Hobb Lake, and 1.2 mi (1.9 km) west of Bates Mill and 1.3 mi (2.1 km) north of Blue Anchor. Datum of gage is 101.04 ft (30.80 m) above mean sea level.	6.20 (16.1 km^2)	1975	3-20-75	3.54	87
01409409	Blue Anchor Brook near Blue Anchor, N. J.	Lat 39°41'17", long 74°51'00", Camden County, at bridge on Spring Garden Road, 4,000 ft (1,220 m) upstream of Route 30 highway bridge, 1.8 mi (2.9 km) east of Blue Anchor and 2.2 mi (3.5 km) upstream from mouth. Datum of gage is 89.62 ft (27.32 m) above mean sea level.	3.01 (7.80 km^2)	1975	1-14-75	4.44	20
		Cohansey River basin					
01412500	West Branch Cohansey River at Seeley, N. J.	Lat 39°29'06", long 75°15'33", Cumberland County, on right bank 15 ft (4.6 m) upstream from county bridge, Highway 31, at Seeley, 450 ft (137 m) upstream from mouth and 4.1 mi (6.6 km) northwest of Bridgeton. Datum of gage is 42.23 ft (12.87 m) above mean sea level.	2.16 (5.59 km^2)	1952-67‡, 1968-75	7-14-75	9.1	700
		Delaware River basin					
*01445000	Pequest River at Huntsville, N. J.	Lat 40°58'49", long 74°46'38", Sussex County, on right bank, 20 ft (6.1 m) upstream from highway bridge in Huntsville, and 0.4 mi (0.6 km) downstream from East Branch. Datum of gage is 553.81 ft (168.80 m) above mean sea level.	31.4 (81.3 km^2)	1940-62‡, 1963-75	3-20-75	3.63	348

See footnotes at end of table, p. 164.

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

Crest-stage partial-record stations

Annual maximum discharge at crest-stage partial-record stations--Continued

Station No.	Station name	Location	Drainage area (mi^2)	Period of record	Annual maximum		
					Date	Gage height (feet)	Discharge (cfs)
		Delaware River basin--Continued					
*01445490	Furnace Brook at Oxford, N. J.	Lat 40°44'15", long 74°59'42", Warren County, at bridge on State Route 31 in Oxford, 2.4 mi (3.9 km) upstream from mouth, and 3.2 mi (5.1 km) north of Washington.	a4 (10.4 km^2)	1966-75	7-14-75	b4.70	†
*01446000	Beaver Brook near Belvidere, N. J.	Lat 40°50'40", long 75°02'48", Warren County, on right bank, 2,000 ft (610 m) upstream from mouth, and 2 mi (3 km) east of Belvidere. Datum of gage is 303.36 ft (92.46 m) above mean sea level.	36.2 (93.8 km^2)	1922-61‡, 1963-75	7-14-75	4.41	806
01455200	Pohatcong Creek at New Village, N. J.	Lat 40°42'57", long 75°04'20", Warren County, at bridge on Edison Road, 0.4 mi (0.6 km) southeast of New Village, and 4.3 mi (6.9 km) upstream from Merrill Creek. Datum of gage is 310.82 ft (94.74 m) above mean sea level.	33.4 (86.5 km^2)	1960-69‡, 1972-75	7-14-75	6.18	1,350
01456000	Musconetcong River at Hackettstown, N. J.	Lat 40°53'10", long 74°48'00", Warren County, on right bank 75 ft (23 m) upstream from Saxon Falls Dam, 0.5 mi (0.8 km) upstream from Erie-Lackawanna Railway bridge, and 3.0 mi (4.8 km) northeast of Hackettstown.	70.0 (181.3 km^2)	1921-73‡, 1974-75	12-21-73 7-14-75	unknown 2.65	1,350 about 1,470
01457500	Delaware River at Riegelsville, N. J.	Lat 40°35'36", long 75°11'17", Warren County, at suspension bridge at Riegelsville, 600 ft (183 m) upstream from Musconetcong River (flow of which is included in the records for this station since Oct. 1, 1931). Datum of gage is 125.12 ft (38.14 m) above mean sea level, datum of 1929. National Ocean Survey.	6,328 (16,390 km^2)	1906-71‡, 1972-75	12-22-73 2-25-75	c22.55 19.45	c118,000 92,600
01464400	Crosswicks Creek at New Egypt, N. J.	Lat 40°04'03", long 74°31'57", Ocean County, at upstream side of bridge on State Route 528 in New Egypt, and 300 ft (91 m) downstream from Oakford Lake dam. Datum of gage is 43.46 ft (13.25 m) above mean sea level.	a38 (98.4 km^2)	1968-75	9-25-75	b20.92	1,120
01464520	Doctors Creek at Groveville, N. J.	Lat 40°10'21", long 74°39'33", Mercer County, at bridge on Groveville-Allentown road at Groveville, 0.7 mi (1.1 km) southeast of Yardville, and 1.5 mi (2.4 km) upstream of mouth. Datum of gage is 14.23 ft (4.34 m) above mean sea level.	a24.7 (64.0 km^2)	1968-75	9-25-75	b8.45	1,000
01465882	South West Branch Rancocas Creek at Medford, N. J.	Lat 39°54'16", long 74°48'47", Burlington County, at bridge on State Route 70, 0.6 mi (1.0 km) northeast of Medford and 4.2 mi (6.8 km) upstream from mouth.	33.8 (87.5 km^2)	1975	9-25-75	7.21	4,600

See footnotes at end of table, p. 164.

Crest-stage partial-record stations

Annual maximum discharge at crest-stage partial-record stations--Continued

Station No.	Station name	Location	Drainage area (mi²)	Period of record	Annual maximum		
					Date	Gage height (feet)	Discharge (cfs)
		Delaware River basin--Continued					
01466000	Middle Branch Mount Misery Brook in Lebanon State, Forest, N. J.	Lat 39°55'00", long 74°30'30", Burlington County, in Lebanon State Forest, 20 ft (6. 1 m) upstream from bridge on North Branch Road, and 5.1 mi (8.2 km) southeast of Browns Mills. Datum of gage is 99.71 ft (30.39 m) above mean sea level.	2.73 (7.07 km²)	1952-65‡, 1967-75	unknown	unknown	unknown
01467057	Pompeston Creek at Cinniminson, N. J.	Lat 40°00'11", long 74°59'00", Burlington County, at U. S. Route 130 bridge, 0.7 mi (1.1 km) northwest of Cinniminson, 1.7 mi (2.7 km) upstream from mouth, and 2.1 mi (3.4 km) east of Palymra.	5.75 (14.9 km²)	1975	3-19-75	5.37	580
*01467130	Cooper River at Kirkwood, N. J.	Lat 39°50'11", long 75°00'06", Camden County, 5 ft (1.5 m) upstream from dam at Kirkwood Lake in Kirkwood, and 1.0 mi (1.6 km) north of Laurel Springs. Datum of gage is 57.82 ft (17.62 m) above mean sea level.	5.14 (13.3 km²)	1964-75	7-13-75	1.87	235
*01467160	North Branch Cooper River near Marlton, N. J.	Lat 39°53'20", long 74°58'08", Camden County, at bridge on blacktop road to Springdale, 2.5 mi (4.0 km) west of Marlton. Datum of gage is 36.36 ft (11.08 m) above mean sea level.	5.33 (13.8 km²)	1964-75	3-19-75	b3.44	220
*01467180	North Branch Cooper River at Ellisburg, N. J.	Lat 39°54'27", long 75°00'42", Camden County, at bridge on Ellisburg-Vernon Road, 0.4 mi (0.6 km) south of Ellisburg, and 0.9 mi (1.4 km) upstream from confluence with Cooper River. Datum of gage is 9.80 ft (2.99 m) above mean sea level.	10.4 (26.9 km²)	1964-75	7-13-75	b3.86	315
*01467305	Newton Creek at Collingswood, N. J.	Lat 39°54'30", long 75°03'13", Camden County, at bridge on Park Avenue in Collingswood, 0.3 mi (0.5 km) east of Cuthbert Avenue. Datum of gage is 18.74 ft (5.71 m) above mean sea level.	1.32 (3.42 km²)	1964-75	7-13-75	3.34	150
01467317	South Branch Newton Creek at Haddon Heights, N. J.	Lat 39°52'45", long 75°04'26", Camden County, at bridge in Haddon Heights Park in Haddon Heights, and 2.6 mi (4.2 km) south of Collingswood. Datum of gage is 23.34 ft (7.11 m) above mean sea level.	.63 (1.63 km²)	1964-75	7-13-75	3.18	39
*01467330	South Branch Big Timber Creek at Blackwood, N. J.	Lat 39°48'17", long 75°03'13", Camden County, at bridge on Lower Landing Road in Blackwood, and 3.0 mi (4.8 km) upstream from mouth. Datum of gage is 8.41 ft (2.56 m) above mean sea level.	a19 (49.2 km²)	1964-75	7-13-75	b4.99	620
01467351	North Branch Big Timber Creek at Laurel Springs, N. J.	Lat 39°49'07", long 75°00'56", Camden County, at bridge on Laurel Road in Laurel Springs, and 2.5 mi (4.0 km) upstream from confluence with the south Branch.	7.16 (18.5 km²)	1975	9-25-75	2.19	340

See footnotes at end of table, p.164.

Crest-stage partial-record stations

Annual maximum discharge at crest-stage partial-record stations--Continued

Station No.	Station name	Location	Drainage area (mi^2)	Period of record	Annual maximum		
					Date	Gage height (feet)	Discharge (cfs)
		Delaware River basin--Continued					
01475019	Mantua Creek at Salina, N. J.	Lat 39°46'13", long 75°05'59", Gloucester County, at bridge on Salina-Sewell Road, 0.2 mi (0.3 km) downstream of Bees Branch, and 0.5 mi (0.8 km) west of Salina.	14.2 (36.8 km^2)	1975	7-15-75	7.49	650
01477480	Oldmans Creek near Harrisonville, N. J.	Lat 39°41'40", long 75°18'38", Salem County, at bridge on Harrisonville Station Road, 2.4 mi (3.8 km) west of Harrisonville, and 2.8 mi (4.5 km) north of Woodstown.	13.6 (35.2 km^2)	1975	7-14-75	6.11	660

* Also a low-flow partial-record station.
† Discharge not determined.
‡ Operated as a continuous-record gaging station.
a Estimated.
b Downstream side of bridge.
c Not previously published.

Discharge measurements at miscellaneous sites

Measurements of streamflow at points other than gaging stations are given in the following table. Those that are measurements of base flow are designated by an asterisk (*); measurements of peak flow by a dagger (†).

Discharge measurements made at miscellaneous sites during water year 1975

Stream	Tributary to	Location	Drainage area (mi^2)	Measured previously (water years)	Measurements	
					Date	Discharge (ft^3/s)
		Passaic River basin				
01379100 Dead River	Passaic River	Lat 40°39'15", long 7[illegible]°34'35". Somerset County, at bridge on Martinsville Road, 0.2 mi (0.3 km) upstream from Harrisons Brook, and 0.7 mi (1.1 km) south of Liberty Corner.	-	1974	5-22-75	*7.0
01379170 Harrisons Brook	Dead River	Lat 40°39'23", long 74°34'22", Somerset County, at mouth, 0.6 mi (1.0 km) south of Liberty Corner.	-	1974	5-22-75	*5.4
01379180 Dead River	Passaic River	Lat 40°39'06", long 74°32'47", Somerset County, at bridge on Dead River Road, 1.4 mi (2.3 km) upstream from mouth, and 2.3 mi (3.7 km) southwest of Millington.	-	1974	5-22-75	*16
01379195 Dead River tributary	Dead River	Lat 40°38'53", long 74°31'39", Somerset County, at mouth, 1.0 mi (1.6 km) northwest of Mount Bethel.	-	1974	5-22-75	*2.4
		Raritan River basin				
01396117 South Branch Raritan River	Raritan River	Lat 40°50'03", long 74°44'18", Morris County, at bridge on Flanders-Drakestown Road, 0.4 mi (0.6 km) downstream from Turkey Brook, and 1.3 mi (2.1 km) northwest of Bartley.	-	1970	8-22-75	*12
01396123 South Branch Raritan River	Raritan River	Lat 40°48'52", long 74°43'46", Morris County, at bridge on dirt road 0.3 mi (0.5 km) upstream from Drakes Brook at Four Bridges, and 0.8 mi (1.3 km) southwest of Bartley.	-	-	8-22-75	*12
01396130 Drakes Brook	South Branch Raritan River	Lat 40°52'40", long 74°39'14", Morris County, at bridge on Canal Street in Ledgewood, 1.9 mi (3.0 km) south of Landing.	-	-	8-22-75	*4.6
01396140 Drakes Brook tributary	Drakes Brook	Lat 40°51'37", long 74°40'19", Morris County, at bridge on Central Railroad of New Jersey, 1.6 mi (2.6 km) northeast of Flanders and 1.7 mi (2.7 km) southwest of Succasunna.	-	-	8-22-75	*.88
01396145 Drakes Brook	South Branch Raritan River	Lat 40°51'34", long 74°40'25", Morris County, at bridge on Carey Road, 1.5 mi (2.4 km) northeast of Flanders, and 1.8 mi (2.9 km) southwest of Succasunna.	-	-	8-22-75	*5.7
0139 150 Drakes Brook tributary 2	Drakes Brook	Lat 40°51'50", long 74°41'35", Morris County, just upstream of sewage treatment plant, 1.4 mi (2.2 km) north of Flanders and 2.3 mi (3.7 km) northeast of Mount Olive.	-	-	8-22-75	*5.6

Discharge measurements at miscellaneous sites

Discharge measurements made at miscellaneous sites during water year 1975--Continued

Stream	Tributary to	Location	Drainage area (mi²)	Measured previously (water years)	Measurements	
					Date	Discharge (ft³/s)
		Raritan River basin--Continued				
01396154 Drakes Brook tributary 2	Drakes Brook	Lat 40°50'47", long 74°41'42", Morris County, at bridge on Central Railroad of New Jersey in Flanders and 2.2 mi (3.5 km) east of Mount Olive.	-	-	8-22-75	*2.8
01396155 Drakes Brook	South Branch Raritan River	Lat 40°50'42", long 74°41'38", Morris County, at bridge on Eyland Avenue in Flanders, and 2.1 mi (3.4 km) east of Mount Olive.	-	-	8-22-75	*7.5
01396185 South Branch Raritan River	Raritan River	Lat 40°48'33", long 74°44'14", Morris County, at bridge on unnamed road at Four Bridges 0.2 mi (0.3 km) downstream from Drakes Brook, and 1.3 mi (2.1 km) southwest of Bartley.	-	-	8-22-75	*31
01396200 South Branch Raritan River	Raritan River	Lat 40°47'48", long 74°44'48", Morris County, at bridge on Naughright-Milltown road at Naughright, 1.4 (2.2 km) downstream from Drakes Brook, and 1.8 mi (2.9 km) northwest of Milltown.	-	-	8-21-75 8-22-75	*37 *34
01396270 South Branch Raritan River	Raritan River	Lat 40°47'06", long 74°46'49", Morris County, at bridge on State Route 24, at Long Valley, and 2.7 mi (4.3 km) northeast of Middle Valley.	-	-	8-21-75	*49
01396305 South Branch Raritan River	Raritan River	Lat 40°44'33", long 74°49'29", Morris County, at bridge on Vernoy Road, 2.7 mi (4.3 km) north of Califon, and 1.3 mi (2.1 km) south of Middle Valley.	-	-	8-21-75	*70
01396350 South Branch Raritan River	Raritan River	Lat 40°43'14", long 74°50'16", Morris County, at bridge on Main Street in Califon, and 2.5 mi (4.0 km) northwest of Mountainville.	-	-	8-21-75	*60
01396390 South Branch Raritan River	Raritan River	Lat 40°42'25", long 74°51'42", Hunterdon County, at bridge on High Bridge Road at Hoffmans and 1.6 mi (2.6 km) southwest of Califon.	-	-	8-21-75	*78
01396520 South Branch Raritan River	Raritan River	Lat 40°40'19", long 74°53'18", Hunterdon County, at bridge on Wilson Avenue, 150 ft (45 m) below Lake Solitude in High Bridge.	-	-	8-21-75	*77
01396540 South Branch Raritan River	Raritan River	Lat 40°39'22", long 74°54'45", Hunterdon County, at bridge on Gray Rock Road, 1.0 mi (1.6 km) southwest of High Bridge, and 1.3 mi (2.1 km) north of Clinton.	-	-	8-20-75 8-21-75	*90 *79
01396810 South Branch Raritan River	Raritan River	Lat 40°38'09", long 74°54'45", Hunterdon County, at bridge on Main Street in Clinton, and 2.3 mi (3.7 km) southwest of High Bridge.	-	-	8-20-75	*124
01396930 South Branch Raritan River	Raritan River	Lat 40°36'14", long 74°54'10", Hunterdon County, at bridge on River Road in Hamden, 1.0 mi (1.6 km) below Cakepoulin Creek, and 3.3 mi (5.3 km) northeast of Pittstown.	-	1961-62	8-20-75	*161

Discharge measurements at miscellaneous sites

Discharge measurements made at miscellaneous sites during water year 1975--Continued

Stream	Tributary to	Location	Drainage area (mi^2)	Measured previously (water years)	Measurements	
					Date	Discharge (ft^3/s)
		Raritan River basin--Continued				
01397300 South Branch Raritan River	Raritan River	Lat 40°32'18", long 74°50'57", Hunterdon County, at bridge on Bartles Corners road at Darts Mills, and 2.7 mi (4.3 km) north of Flemington.	-	-	8-20-75	*165
01397400 South Branch Raritan River	Raritan River	Lat 40°31'01", long 74°48'10", Hunterdon County, at bridge on Main Street in Three Bridges, 1.4 mi (2.3 km) downstream from Bushkill Brook, and 3.0 mi (4.8 km) northeast of Flemington.	-	1969	8-20-75	*177
01397420 South Branch Raritan River	Raritan River	Lat 40°30'07", long 74°44'34", Somerset County, at bridge on Black Point Road, 0.7 mi (1.1 km) southwest of Neshanic Station, and 3.2 mi (5.1 km) southwest of Flagtown.	-	-	8-20-75	*188
01398065 Neshanic River	South Branch Raritan River	Lat 40°29'37", long 74°45'13", Somerset County, at bridge on Amwell Road (State Route 514), 0.8 mi (1.3 km) upstream from mouth, 1.6 mi (2.3 km) east of Cloverhill, and 1.8 mi (2.9 km) west of Neshanic.	-	-	8-20-75	*6.7
01398100 South Branch Raritan River	Raritan River	Lat 40°31'33", long 74°42'20", Somerset County, at bridge on River Road, 1.2 mi (1.9 km) west of Flagtown, 1.8 mi (2.9 km) northeast of Neshanic Station, and 2.1 mi (3.4 km) upstream from Holland Brook.	-	1969	8-20-75	*203
01398102 South Branch Raritan River	Raritan River	Lat 40°32'48", long 74°41'48", Somerset County, at bridge on South Branch Road in South Branch, and 2.0 mi (3.2 km) north of Flagtown.	-	-	8-20-75	*211
01398110 Holland Brook	South Branch Raritan River	Lat 40°33'11", long 74°42'03", Somerset County, at bridge on State Route 567, 0.4 mi (0.6 km) northwest of South Branch, 0.5 mi (0.8 km) upstream from mouth, and 1.3 mi (2.1 km) southwest of Milltown.	-	-	8-20-75	*3.6
01398221 India Brook	North Branch Raritan River	Lat 40°46'50", long 74°37'12", Morris County, 0.1 mi (0.2 km) upstream from mouth, 0.8 mi (1.3 km) north of Ralston, and 1.0 mi (1.6 km) west of Mendham.	-	-	8-19-75	*4.0
01398222 North Branch Raritan River	Raritan River	Lat 40°46'45", long 74°37'15", Morris County, just below confluence of India Brook, 0.8 mi (1.3 km) north of Ralston, and 1.0 mi (1.6 km) west of Mendham.	-	-	8-19-75	*4.8
01398370 Burnett Brook	North Branch Raritan River	Lat 40°45'47", long 74°38'03", Morris County, just upstream of mouth, 0.8 mi (1.3 km) southwest of Ralston, 0.9 mi (1.4 km) north of Pleasant Valley, and 3.6 mi (5.8 km) northwest of Chester.	-	-	8-19-75	*2.0
01398375 North Branch Raritan River	Raritan River	Lat 40°45'46", long 74°38'04", Morris County, just below Burnett Brook, 0.9 mi (1.4 km) north of Pleasant Valley, and 3.6 mi (5.8 km) northwest of Chester.	-	-	8-19-75	*16

Discharge measurements at miscellaneous sites

Discharge measurements made at miscellaneous sites during water year 1975--Continued

Stream	Tributary to	Location	Drainage area (mi^2)	Measured previously (water years)	Measurements Date	Measurements Discharge (ft^3/s)
		Raritan River basin--Continued				
01398470 McVickers Brook	North Branch Raritan River	Lat 40°44'58", long 74°37'59", Morris County, at first highway bridge upstream of mouth, at Pleasant Valley, and 2.5 mi (4.0 km) northeast of Gladstone.	-	-	8-19-75	*5.4
01398475 North Branch Raritan River	Raritan River	Lat 40°44'49", long 74°38'01", Somerset County, at bridge on Mosle Road in Pleasant Valley, 1,000 ft (305 m) downstream from McVickers Brook, and 2.4 mi (3.8 km) northeast of Gladstone.	-	1973	8-19-75	*24
01398480 North Branch Raritan River	Raritan River	Lat 40°43'15", long 74°38'20", Somerset County, at bridge on Campbell Road, 0.3 mi (0.5 km) upstream from Ravine Lake, and 1.0 mi (1.6 km) east of Peapack.	-	-	8-19-75	*28
01398860 North Branch Raritan River	Raritan River	Lat 40°41'29", long 74°38'50", Somerset County, just below mouth of Peapack Brook, 0.8 mi (1.3 km) northwest of Far Hills, and 1.7 mi (2.7 km) southeast of Peapack.	40.2 (104.2 km^2)	-	8-19-75	*47
01398900 North Branch Raritan River	Raritan River	Lat 40°40'58", long 74°38'18", Somerset County, at bridge on U.S. Route 202 at Bedminster, and 3.0 mi (4.8 km) southeast of Gladstone.	-	-	8-19-75	[illegible]
01399005 North Branch Raritan River	Raritan River	Lat 40°39'16", long 74°39'42", Somerset County, at bridge on John Kane Road, 1.2 mi (1.9 km) northwest of Pluckemin, and 2.3 mi (3.7 km) southwest of Far Hills.	-	-	8-19-75	*64
01399120 North Branch Raritan River	Raritan River	Lat 40°38'09", long 74°40'56", Somerset County, at bridge on Burnt Mills Road, 0.1 mi (0.2 km) upstream from Lamington River, 0.3 mi (0.5 km) east of Burnt Mills, and 4.0 mi (6.4 km) southwest of Far Hills.	63.8 (165.2 km^2)	1964	8-19-75	*61
01399780 Lamington River	North Branch Raritan River	Lat 40°38'09", long 74°40'56", Somerset County, at bridge on Walsh Road at Burnt Mills, 0.2 mi (0.3 km) upstream from North Branch Raritan River, and 4.4 mi (7.0 km) southwest of Far Hills.	100 (259 km^2)	1964, 1973	8-19-75	*104
01399830 North Branch Raritan River	Raritan River	Lat 40°36'00", long 74°40'27", Somerset County, at bridge on State Route 28, at North Branch, 0.1 mi (0.2 km) downstream from River Brook, and 2.9 mi (4.6 km) northwest of Raritan.	-	-	8-19-75	*167
01400010 North Branch Raritan River	Raritan River	Lat 40°33'24", long 74°41'19", Somerset County, at bridge on Old York Road (State Route 567), 0.1 mi (0.2 km) upstream from Raritan River, and 0.8 mi (1.3 km) northeast of South Branch.	190 (492 km^2)	-	8-19-75	*179
01400090 Raritan River	Raritan Bay	Lat 40°33'16", long 74°41'11", Somerset County, just below confluence North and South Branches, 0.8 mi (1.3 km) northeast of South Branch, and 2.8 mi (4.5 km) southwest of Raritan.	-	-	8-05-75 9-04-75	945 *300

Discharge measurements at miscellaneous sites

Discharge measurements made at miscellaneous sites during water year 1975--Continued

Stream	Tributary to	Location	Drainage area (mi²)	Measured previously (water years)	Measurements	
					Date	Discharge (ft³/s)
Raritan River basin--Continued						
01400120 Raritan River	Raritan Bay	Lat 40°33'52", long 74°38'10", Somerset County, at bridge on South Branch-Raritan road in in Raritan, and 3.5 mi (5.6 km) northeast of South Branch.	-	-	9-04-75	*330
01400400 Peters Brook	Raritan River	Lat 40°33'41", long 74°36'28", Somerset County, at bridge on Southside Avenue in Somerville, 1.5 mi (2.4 km) west of Finderine.	-	-	8-05-75 9-04-75	*4.3 *3.4
01402920 Raritan River	Raritan Bay	Lat 40°32'34", long 74°34'01", Somerset County, just below confluence Millstone River, 1.1 mi (1.8 km) east of Manville, and 2.2 mi (3.5 km) southwest of South Bound Brook.	-	-	8-05-75 9-05-75	1,060 *310
01403200 Middle Brook	Raritan River	Lat 40°33'38", long 74°32'56", Somerset County, at bridge on State Route 28 at Bound Brook, 0.5 mi (0.8 km) upstream from mouth, and 1.1 mi (1.8 km) northwest of South Bound Brook.	17.2 (44.5 km²)	1955	8-05-75 9-04-75	*16 *7.9
01404080 Bound Brook	Raritan River	Lat 40°33'59", long 74°31'33", Somerset County, at bridge on State Route 28 at Middlesex, 0.5 mi (0.8 km) upstream from mouth, and 0.6 mi (1.0 km) north of South Bound Brook.	-	-	8-05-75 9-04-75	*64 *26
Cohansey River basin						
01412495 Cohansey River	Delaware Bay	Lat 39°29'15", long 75°15'32", Cumberland County, 0.1 mi (0.2 km) upstream from West Branch, 3.0 mi (4.8 km) northeast of Shiloh, and 4.0 mi (6.4 km) north of Bridgeton.	-	-	10-04-74 10-25-74 12-06-74 4-16-75	*8.1 *5.4 14 24
01412530 Cohansey River	Delaware Bay	Lat 39°28'55", long 75°15'11", Cumberland County, 0.1 mi (0.2 km) upstream from Foster Run, 0.4 mi (0.6 km) downstream from West Branch, and 3.0 mi (4.8 km) northeast of Shiloh.	-	-	10-04-74 10-25-74 12-06-74 4-16-75	*6.4 *3.6 2.9 7.9
01412580 Foster Run	Cohansey River	Lat 39°29'29", long 75°13'09", Cumberland County, at bridge on Seabrook-Orchard Center road, 0.7 mi (1.1 km) south of Seabrook, 1.4 mi (2.2 km) upstream from Parsonage Run, and 2.3 mi (3.7 km) northwest of Woodruff.	-	-	10-04-74 10-25-74 12-06-74	*.31 *.48 .28
01412590 Foster Run	Cohansey River	Lat 39°29'34", long 75°13'32", Cumberland County, at bridge on unnamed road, 1.0 mi (1.6 km) upstream from Parsonage Run, 0.6 mi (1.0 km) south of Seabrook, and 2.6 mi (4.2 km) northwest of Woodruff.	-	-	10-04-74 10-25-74 12-06-74	*2.6 *.52 .72
01412680 Parsonage Run	Foster Run	Lat 39°29'51", long 75°13'59", Cumberland County, at bridge on North Laurel Street, 0.5 mi (0.8 km) west of Seabrook, and 3.2 mi (5.1 km) northwest of Woodruff.	-	1951-52	10-04-74 10-25-74 12-06-74	*.44 *.88 .68

Discharge measurements at miscellaneous sites

Discharge measurements made at miscellaneous sites during water year 1975--Continued

Stream	Tributary to	Location	Drainage area (mi²)	Measured previously (water years)	Measurements Date	Measurements Discharge (ft³/s)
		Cohansey River basin--Continued				
01412710 Foster Run	Cohansey River	Lat 39°29'15", long 75°15'15", Cumberland County, at bridge on Seabrook-Seeley road, 0.4 mi (0.6 km) above mouth, 0.4 mi (0.6 km) north of Seeley, and 3.1 mi (5.0 km) northeast of Shiloh.	-	1951	10-04-74 10-25-74 12-06-74 4-16-75	*7.7 *8.6 5.5 8.0
01412800 Cohansey River	Delaware Bay	Lat 39°28'20", long 75°15'21", Cumberland County, at bridge on light-duty road, 0.7 mi (1.1 km) downstream from Foster Run, 0.7 mi (1.1 km) south of Seeley, and 2.5 mi (4.0 km) east of Shiloh.	-	-	10-04-74 10-25-74 12-06-74 4-16-75	*24 *23 24 37
01412900 Beebe Run	Cohansey River	Lat 39°28'11", long 75°15'38", Cumberland County, at bridge on Beebe Run Road, 0.3 mi (0.5 km) upstream from Cohansey River, 0.8 mi (1.3 km) south of Seeley, and 2.2 mi (3.5 km) northeast of Shiloh.	-	1966	10-04-74 10-25-74 12-06-74	*.75 *.81 .72
01413000 Loper Run	Cohansey River	Lat 39°28'18", long 75°14'56", Cumberland County, at outlet of Silver Lake, 2.5 mi (4.0 km) southwest of Seabrook, and 3.0 mi (4.8 km) northwest of Bridgeton.	2.34 (6.06 km²)	1937-59	10-04-74 10-25-74 12-06-74	*.31 *.39 .46
01413003 Cohansey River	Delaware Bay	Lat 39°27'34", long 75°14'42", Cumberland County, 0.1 mi (0.2 km) upstream from Shaw Branch, 2.9 mi (4.6 km) east of Shiloh, and 2.3 mi (3.7 km) northwest of Bridgeton.	-	-	10-04-74 10-25-74 12-06-74	*33 *31 29
01413005 Shaw Branch	Cohansey River	Lat 39°27'30", long 75°15'11", Cumberland County, at bridge on Beebe Run Road, 0.5 mi (0.8 km) upstream from mouth, 2.5 mi (4.0 km) east of Shiloh, and 2.3 mi (3.7 km) northwest of Bridgeton.	-	1966	10-25-74 12-06-74	*.03 .04

TIDAL GAGING STATIONS

The following tables contain the summaries of the monthly tide elevations for the tidal gaging stations. The maximum and minimum elevations are taken directly from recorded gage heights. The mean high and low tide figures are computed by taking the average of all the high and low tides for the month. The mean water level is determined by averaging all the recorded gage heights. The recorded gage-height record is converted to elevation for publication.

LITTLE EGG HARBOR BAY

01409335 Shooting Thorofare at Old Coast Guard Station, near Tuckerton, N. J.

LOCATION.--Lat 39°30'30", long 74°19'30", Ocean County, northwest end of boat dock behind the abandoned Little Egg Coast Guard Station at foot of Great Bay Boulevard, 6.4 mi (10.3 km) south of Tuckerton.

PERIOD OF RECORD.--June 1971 to April 1975 (discontinued).

GAGE.--Water-stage recorder. Datum of gage is 13.91 ft (4.240 m) below mean sea level. Gage height converted to elevation above or below (-) mean sea level for publication.

REMARKS.--Records good.

Summaries of tide elevations during current year are as follows:

TIDE ELEVATIONS, IN FEET, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

		OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
Maximum	Elevation	3.48	3.81	5.60	3.40	3.77	4.14	3.63	-	-	-	-	-
high tide	Date	17	12	1	29	25	14	25	-	-	-	-	-
Minimum	Elevation	-0.86	-1.91	-1.89	-1.89	-1.92	-1.90	-1.89	-	-	-	-	-
low tide	Date	13	21	28	27,28	26,27	26	4	-	-	-	-	-
Mean high tide		2.12	2.37	2.32	2.05	2.01	2.10	1.95	-	-	-	-	-
Mean water level		0.34	0.57	0.57	0.24	0.26	0.34	0.20					
Mean low tide		-1.37	-1.07	-1.18	-1.46	-1.38	-1.36	-1.42	-	-	-	-	-

01409510 Batsto River at Pleasant Mills, N. J.

LOCATION.--Lat 39°37'55", long 74°38'40", Burlington County, on right bank, 0.5 mi (0.8 km) upstream from mouth, 1.0 mi (1.6 km) southeast of Pleasant Mills.

DRAINAGE AREA.--73.6 mi² (190.6 km²).

PERIOD OF RECORD.--July 1958 to current year. Annual maximum only July 1958 to September 1965, published in WRD-NJ 1965; October 1965 to September 1966, published in WRD-NJ 1966.

GAGE.--Water-stage recorder. Datum of gage is 8.6 ft (2.621 m) above mean sea level. Gage-height record converted to elevation above or below (-) mean sea level for publication.

REMARKS.--Records good except those for period of doubtful gage-height record, which are poor.

Summaries of tide elevations during year are as follows:

TIDE ELEVATIONS, IN FEET, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

		OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
Maximum	Elevation	3.25	3.51	5.57	3.68	3.30	3.86	3.26	3.45	3.40	3.22	3.38	4.75
high tide	Date	16	12	2	11	5	15	17	27	10	6	7	26
Minimum	Elevation	0	0.03	0.38	0.41	0.49	0.36	0.20	0.46	0.29	0.15	0.10	0.06
low tide	Date	5	27	7	2	15	8-10	23	31	25	31	1	11
Mean high tide		2.51	2.43	2.73	2.38	2.42	2.50	2.33	2.71	2.37	2.69	2.75	2.98
Mean water level		1.35	1.37	1.80	1.67	1.53	1.61	1.40	1.80	1.68	1.78	1.87	2.05
Mean low tide		0.32	0.35	0.99	0.98	0.78	0.85	0.64	0.84	0.72	0.82	0.75	1.02

Maximum elevation for period of record, 7.2 ft (2.19 m) Mar. 7, 1962; minimum elevation for water years 1967-72, 0.40 ft (0.12 m) below mean sea level, Oct. 18, 1970.

NOTE.--Record doubtful June through September.

01411318 Crook Horn Creek at Ocean City, N. J.

LOCATION.--Lat 39°15'10", long 74°37'44", Cape May County, on piling on west bank of old bridge crossing Roosevelt Boulevard, 800 ft (243.8 m) from Peck Bay, and 100 ft (30.5 m) from city boundary of Ocean City.

PERIOD OF RECORD.--May 1974 to current year.

GAGE.--Water-stage recorder. Datum of gage is 10.86 ft (3.310 m) below mean sea level. Gage-height record converted to elevation above or below (-) mean sea level for publication.

REMARKS.--Records good except those for July, August and September, which are fair.

Summaries of tide elevations during period are as follows:

TIDE ELEVATIONS, IN FEET, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

		OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
Maximum	Elevation	4.97	5.09	6.61	-	4.69	5.06	4.89	5.17	4.93	4.87	4.99	4.74
high tide	Date	16	12	1	-	25	14	25	25	9	9	7	2
Minimum	Elevation	-1.70	-2.08	-1.36	-	a-2.0	-2.23	-2.39	-0.81	-1.17	-0.97	-0.72	-0.74
low tide	Date	13	16	28	-	-	27	4	21	23,24	18	22	9
Mean high tide		3.61	3.48	3.62	-	3.40	3.36	3.33	3.79	3.75	3.68	3.90	3.89
Mean water level		1.72	1.67	1.82	-	1.58	1.55	1.55	1.92	1.91	1.83	2.07	2.07
Mean low tide		-0.29	-0.20	-0.11	-	-0.31	-0.22	-0.19	-0.08	0	-.20	0.18	a0.25

a- Estimated.

NOTE.--No gage-height record Jan. 3 to Feb. 3.

GREAT EGG HARBOR BAY

01411320 Great Egg Harbor Bay at Ocean City, N. J.

LOCATION.--Lat 39°17'10", long 74°34'29", Cape May County, on bulkhead piling at west end of 5th Street, Ocean City, and 2.5 mi (4.0 km) southeast of Sommers Point.

PERIOD OF RECORD.--Operated as tidal crest-stage gage 1965-73. October 1973 to current year.

GAGE.--Water-stage recorder. Datum of gage is 11.68 ft (3.560 m) below mean sea level. Gage-height record converted to elevation above or below (-) mean sea level for publication.

REMARKS.--Records poor. For periods noted with dash (-) line the data is either unreliable or unavailable and is not published.

Summaries of tide elevations during current year are as follows:

TIDE ELEVATIONS, IN FEET, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

		OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
Maximum	Elevation	4.21	4.48	6.23	4.07	4.24	4.76	4.43	4.45	4.25	4.28	4.44	4.19
high tide	Date	17	12	1-2	29	25	14	25	25	9	9	7	2
Minimum	Elevation	-	-	-	-	-	-	-	-	-	-	-	-
low tide	Date	-	-	-	-	-	-	-	-	-	-	-	-
Mean high tide		2.82	2.95	3.02	2.74	2.52	3.18	2.72	2.90	2.97	3.03	3.28	2.77
Mean water level		-	-	-	-	-	-	-	-	-	-	-	-
Mean low tide		-	-	-	-	-	-	-	-	-	-	-	-

01464040 Delaware River at Marine Terminal, Trenton, N. J.

LOCATION.--Lat 40°11'21", long 74°45'22", Mercer County, on left bank at downstream end of wharf at Marine Terminal, Trenton, 1.6 mi (2.6 km) downstream from toll bridge on U.S. Highway 1, 2.0 mi (3.2 km) downstream from Assunpink Creek, and at mile 131.80 (212.1 km).

DRAINAGE AREA.--6,870 mi^2 (17,793 km^2).

PERIOD OF RECORD.--May 1964 to current year. March 1921 to June 1946 (at municipal pier, 1.5 mi or 2.4 km upstream), August 1951 to June 1954, September 1957 to April 1964, in files of Philadelphia District Corps of Engineers.

GAGE.--Water-stage recorder. Datum of gage is 12.90 ft (3.932 m) below mean sea level. Gage-height record converted to elevation above or below (-) mean sea level for publication.

REMARKS.--Records poor. For periods noted with dash (-) line the data is unreliable or missing and cannot be estimated. Records of water quality for the current year are published in Section 2 of this report.

Summaries of tide elevations during current year are as follows:

TIDE ELEVATIONS, IN FEET, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

		OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
Maximum	Elevation	6.43	6.23	7.65	6.73	a7.9	a6.8	6.49	6.89	7.44	a7.4	6.77	a7.5
high tide	Date	17	12	2	11	25	20	26	6	10	14	5	26
Minimum	Elevation	-2.89	-2.65	-2.92	-2.5	-	-	-3.34	-	-3.45	-2.95	-3.86	-
low tide	Date	3	22	4	2	-	-	4	-	24	18	8	-
Mean high tide		-	-	-	-	-	-	-	-	-	-	-	-
Mean water level		-	-	-	-	-	-	-	-	-	-	-	-
Mean low tide		-	-	-	-	-	-	-	-	-	-	-	-

Maximum elevation known, 17.9 ft (5.46 m) above mean sea level Aug. 20, 1955, from high-water mark; minimum elevation, 8.6 ft (2.62 m) below mean sea level Dec. 31, 1962, at site 1.4 mi (2.24 km) downstream.

NOTE.--No gage-height record Mar. 6 to Apr. 8, May 25 to June 2, July 5-17, Aug. 14 to Sept. 30.

a- Estimated by comparison with Delaware River at Burlington (sta. 01464598).

01464598 Delaware River at Burlington, N. J.

LOCATION.--Lat 40°04'42", long 74°52'28", Burlington County, on left bank at the intake canal of the Public Service Gas and Electric Company, 0.3 mi (0.5 km) downstream from Burlington-Bristol Bridge, 1.4 mi (2.3 km) downstream from Assiscunk Creek, and at mile 117.40 (188.9 km).

DRAINAGE AREA.--7,160 mi^2 (18,544 km^2).

PERIOD OF RECORD.--July 1964 to current year. March 1921 to July 1926, January 1931 to November 1939, August 1951 to June 1954, July 1957 to June 1964, in files of Philadelphia District Corps of Engineers.

GAGE.--Water-stage recorder. Datum of gage is 12.90 ft (3.932 m) below mean sea level. Prior to May 20, 1971, water-stage recorder at site 0.8 mi (1.3 km) upstream at same datum. Gage-height record converted to elevation above or below (-) mean sea level for publication.

REMARKS.--Records good. Records of water quality for the current year at the Burlington-Bristol Bridge are published in Section 2 of this report.

Summaries of tide elevations during current year are as follows:

TIDE ELEVATIONS, IN FEET, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

		OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
Maximum	Elevation	6.04	6.03	7.43	6.55	7.70	6.63	6.04	6.45	6.79	6.78	6.17	7.27
high tide	Date	17	12	2	11	25	20	3	6,26	10	14	4	26
Minimum	Elevation	-3.32	-4.43	-4.39	-4.99	-3.81	-4.63	-5.46	-2.97	-3.54	-3.03	-3.57	-3.44
low tide	Date	3	22	4	2	14	9	4	28	24	31	8	9
Mean high tide		4.58	4.52	5.00	4.73	4.89	4.98	4.58	5.38	5.42	5.42	5.07	5.26
Mean water level		1.03	1.08	1.53	1.22	1.42	1.42	1.00	1.58	1.69	1.67	1.31	1.66
Mean low tide		-2.75	-2.58	-2.16	-2.46	-2.20	-2.31	-2.63	-2.15	-2.25	-2.30	-2.72	-2.15

Maximum elevation known, 10.8 ft (3.29 m) above mean sea level Aug. 20, 1955, from high-water mark at site 1.4 mi (2.3 km) upstream; minimum elevation, 9.1 ft (2.77 m) below mean sea level Dec. 31, 1962, at present site.

01467060 Delaware River at Palmyra, N. J.

LOCATION.--Lat 40°01'05", long 75°02'16", Philadelphia County, Pa., on right bank opposite Palmyra, 0.5 mi (0.8 km) upstream from Tacony-Palmyra Bridge, 3.5 mi (5.6 km) downstream from Rancocas Creek, and at mile 107.45 (172.89 km).

DRAINAGE AREA.--7,850 mi^2 (20,332 km^2).

PERIOD OF RECORD.--December 1962 to current year. Tidal volumes published from December 1962 to September 1970.

GAGE.--Water-stage recorder. Datum of gage is 10.00 ft (3.048 m) below mean sea level. Gage-height record converted to elevation above or below (-) mean sea level for publication.

REMARKS.--Records fair. Some periods of low tide are affected by sluggish or plugged intake and the record is unreliable. These periods are noted by a dash (-) line in the table.

Summaries of tide elevations during current year are as follows:

TIDE ELEVATIONS, IN FEET, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

		OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
Maximum	Elevation	5.56	5.68	7.10	6.21	7.05	6.14	5.62	6.09	6.40	6.33	5.79	6.75
high tide	Date	17	12	2	11	25	20	3	6	10	14	4	26
Minimum	Elevation	a-3.2	a-3.8	-3.97	-3.98	-3.48	-3.92	a-4.3	a-2.9	a-3.3	a-2.9	a-3.3	a-3.2
low tide	Date	3	22	4	2	14	9	4	28	24	31	8	9
Mean high tide		4.18	4.08	4.55	4.26	4.42	4.48	4.00	4.96	5.01	5.02	4.71	4.8
Mean water level		-	-	1.43	1.13	1.32	1.32	-	-	-	-	-	-
Mean low tide		-	-	-1.95	-2.27	-2.03	-2.01	-	-	-	-	-	-

Maximum high tide known since 1899, 8.9 ft (2.7 m) above mean sea level Aug. 24, 1933, from profile furnished by Corps of Engineers, U.S. Army; minimum low tide, 8.6 ft (2.6 m) below mean sea level Dec. 31, 1962.

a- Estimated by comparison with Delaware River at Burlington (sta. 01464598).

01477050 Delaware River at Chester, Pa.

LOCATION.--Lat 39°50'12", long 75°22'00", Delaware County, Pa., at end of Reynolds Aluminum Company pier, 0.5 mi (0.8 km) downstream from Chester Creek, and at mile 82.3 (132.4 km).

DRAINAGE AREA.--10,300 m^2 (26,677 km^2).

PERIOD OF RECORD.--October 1972 to current year. July 1967 to September 1973, used as auxiliary gage for computing tidal volumes for Delaware River at Delaware Memorial Bridge, Wilmington, Del. (sta. 01482100).

GAGE.--Water-stage recorder. Datum of gage is 10.00 ft (3.048 m) below mean sea level. Gage-height record converted to elevation above or below (-) mean sea level for publication.

REMARKS.--Records good. Records of water quality for the current year are published in Section 2 of this report.

Summaries of tide elevations during current year are as follows:

TIDE ELEVATIONS, IN FEET, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

		OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
Maximum high tide	Elevation	4.82	5.11	7.06	5.24	5.54	5.13	4.65	5.37	5.61	5.23	5.18	5.49
	Date	17	12	2	11	25	19	3	26	10	8	4	26
Minimum low tide	Elevation	-2.68	-3.97	-3.90	-4.47	-3.26	-4.08	-5.75	-2.14	-2.64	-2.27	-2.76	-2.58
	Date	3	22	4	2	14	9	4	21	24	26	8	13
Mean high tide		3.49	3.38	3.74	3.40	3.54	3.56	3.22	4.15	4.24	4.21	4.06	4.07
Mean water level		0.89	0.87	1.13	0.78	0.97	0.92	0.52	1.44	1.43	1.43	1.31	1.43
Mean low tide		-2.01	-1.95	-1.78	-2.11	-1.89	-2.01	-2.28	-1.59	-1.67	-1.66	-1.79	-1.53

01482100 Delaware River at Delaware Memorial Bridge, Wilmington, Del.

LOCATION.--Lat 39°41'21", long 75°31'19", New Castle County, Del., at right tower pier of downstream bridge of dual bridges at Wilmington, Del., 2.0 mi (3.2 km) downstream from Christina River and at mile 68.70 (110.54 km).

DRAINAGE AREA.--11,030 mi^2 (28,568 km^2).

PERIOD OF RECORD.--July 1967 to current year. Tidal volumes published from July 1967 to September 1973.

GAGE.--Water-stage recorder. Datum of gage is 10.00 ft (3.048 m) below mean sea level. Gage-height record converted to elevation above or below (-) mean sea level for publication.

REMARKS.--Records good. Summaries for months with short periods of no gage-height record have been estimated with negligible or no loss of accuracy unless otherwise noted. Records of water quality for the current year are published in Section 2 of this report.

Summaries of tide elevations during current year are as follows:

TIDE ELEVATIONS, IN FEET, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

		OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
Maximum	Elevation	4.86	5.25	7.45	5.22	5.33	5.11	4.70	5.46	5.73	5.34	5.28	-
high tide	Date	17	12	2	11	25	30	25	25	9	8	4	-
Minimum	Elevation	-2.57	-3.69	-3.69	-3.57	-3.13	-3.96	-5.86	-2.07	-2.54	-2.24	-2.62	-
low tide	Date	3	22	4	30	14	27	4	21	24	26	8	-
Mean high tide		3.55	3.43	3.80	3.48	3.57	3.64	3.30	4.22	4.31	4.25	4.13	-
Mean water level		0.89	0.88	1.10	0.75	0.85	0.87	0.51	1.39	1.39	1.37	1.30	-
Mean low tide		-1.86	-1.79	-1.68	-2.14	-1.91	-1.95	-2.20	-1.54	-1.60	-1.62	-1.66	-

Maximum tide elevation known, 8.4 ft (2.6 m) above mean sea level Nov. 23, 1950, furnished by Corps of Engineers, U.S. Army; minimum tide elevation, 9.1 ft (2.8 m) below mean sea level Dec. 31, 1962.

NOTE.--No gage-height record Feb. 4-7 and Sept. 3-30.

TIDAL CREST-STAGE STATIONS

The following table contains annual maximum stages for tidal crest-stage stations. The information is obtained from a crest-stage gage or a water-stage recorder located at each site. A crest-stage gage is a device which will register the peak stage occurring between inspections of the gage. All stages are elevations above mean sea level, datum of 1929, unless otherwise noted. Only the maximum stage is given. Information on some other high stages may have been obtained but is not published herein. The years given in the period of record represent water years for which the annual maximum has been determined.

Annual maximum stages at tidal crest-stage partial-record stations

Station No.	Station name	Location	Period of record	Annual maximum	
				Date	Elevation above mean sea level (feet)
01408160	Metedeconk River near Laurelton, N. J.	Lat 40°03'20", long 74°06'37", Ocean County, on pier at Laurelton Yacht Basin at Princeton Avenue. 1.4 mi (2.3 km) southeast of Laurelton, and 2.4 mi (3.9 km) upstream from mouth.	1969-75	12-02-74	3.92
01408200	Barnegat Bay at Bay Shore, N. J.	Lat 39°56'56", long 74°06'52", Ocean County, at west end of State Route 37 bridge over Barnegat Bay at Bay Shore, 2.2 mi (3.5 km) west of Seaside Heights, and 4.5 mi (7.2 km) east of Toms River.	1965-75	12-02-74	3.74
01409125	Barnegat Bay at Barnegat Light, N. J.	Lat 39°45'37", long 74°06'39", Ocean County, at north side of pier of U.S. Coast Guard Boat Basin on 7th Street (extended in Barnegat Light Borough, 0.35 mi (0.56 km) southwest of Barnegat Lighthouse and 9.1 mi (14.6 km) northeast of Ship Bottom.	1965-75	12-02-74	5.37
01409145	Manahawkin Bay near Manahawkin, N. J.	Lat 39°40'13", long 74°12'54", Ocean County, at west end of State Route 72 bridge over Manahawkin Bay, 2.5 mi (4.0 km) northwest of Ship Bottom, and 3.1 mi (5.0 km) southeast of Manahawkin.	1965-75	12-02-74	4.61
01409290	Tuckerton Cove near Tuckerton. N. J.	Lat 39°34'35", long 74°19'50", Ocean County, on bulkhead piling of Tuckerton Cove at the Tuckerton Beach Club, at the southern end of State Route 539, 0.4 mi (0.6 km) east of mouth of Tuckerton Creek, and 1.9 mi (3.1 km) south of Tuckerton.	1965-75	12-02-74	5.82
01409510	Batsto River at Pleasant Mills, N. J.	Lat 39°37'55", long 74°38'40", Ocean County, on right bank, 0.5 mi (0.8 km) upstream from mouth, and 1.0 mi (1.6 km) southeast of Pleasant Mills.	1958-75	12-02-74	5.57
01410100	Mullica River near Port Republic, N. J.	Lat 39°33'12", long 74°27'46", Atlantic County, on right bank on bulkhead piling at south end of U.S. Route 9 and Garden State Parkway bridge over Mullica River, 2.8 mi (4.5 km) northeast of Port Republic, and 2.8 mi (4.5 km) south of New Gretna.	1965-75	10-02-74	5.77
01410500	Absecon Creek at Absecon, N. J.	Lat 39°25'45", long 74°31'16", Atlantic County, on right bank 30 ft (9.1 m) downstream from Doughty Pond Dam of Atlantic City Water Department, 1 mi (1.6 km) west of Absecon, and 3.4 mi (5.5 km) upstream from mouth.	1923-29‡, 1933-38‡, 1946-75‡	12-02-74	6.25
01411315	Great Egg Harbor Bay at Beesleys Point, N. J.	Lat 39°17'18", long 74°37 50", Cape May County, at Atlantic City Electric Company's B. L. England Generating Station intake, 0.1 mi (0.2 km) west of south end of Route 9 bridge over Great Egg Harbor Bay, 0.7 mi (1.1 km) north of Beesleys Point, and 3.0 mi (4.8 km) west of Ocean City.	1963-75	12-02-74 12-09-73 10-29-72	c5.9 c4.3 (revised) c4.8 (revised)

See footnotes at end of table.

Annual maximum stages at tidal crest-stage partial-record stations--Continued

Station No.	Station name	Location	Period of record	Annual maximum	
				Date	Elevation above mean sea level (feet)
01411320	Great Egg Harbor Bay at Ocean City, N. J.	Lat 39°17'10", long 74°34'29", Cape May County, on bulkhead piling at west end of 5th Street, Ocean City, and 2.5 mi (4.0 km) southeast of Sommers Point.	1965-75	12-02-74	5.22
01411360	Great Channel at Stone Harbor, N. J.	Lat 39°03'26", long 74°45'53", Cape May County, on bulkhead piling at east end of bridge at west end of town of Stone Harbor, 3.7 mi (6.0 km) southeast of Cape May Court House, and 3.9 mi (6.3 km) southwest of Avalon.	1965-75	12-02-74	unknown
01411380	Grassy Sound at West Wildwood, N. J.	Lat 39°00'19", long 74°49'04", Cape May County, on bulkhead piling near northeast end of Glenwood Avnenue at northern tip of West Wildwood, 1.2 mi (1.9 km) northwest of Wildwood, and 2.9 mi (4.7 km) east of Rio Grande.	1965-75	12-02-74	a13.29
01411390	Cape May Harbor at Cape May, N. J.	Lat 38°56'54", long 74°53'26", Cape May County, on bulkhead near most easterly pier, (Pier 3) on grounds of U.S. Coast Guard Receiving Center in Cape May, and 0.7 mi (1.1 km) southeast of east end of Cape May Canal.	1965-75	12-02-74	6.45
01411395	Cape May Canal at North Cape May, N. J.	Lat 38°58'02", long 74°57'25", Cape May County, on Cape May Canal on slip of Cape May, New Jersey to Lewes, Delaware, Ferry, 0.5 mi (0.8 km) from west end of Cape May Canal, and 0.8 mi (1.3 km) south of North Cape May.	1965-75	12-02-74	b10.30
01412150	Maurice River at Bivalve, N. J.	Lat 39°13'42", long 75°02'12", Cumberland County, on right bank on bulkhead piling on the south side of Bivalve, and 1.3 mi (2.1 km) south of Port Norris.	1965-75	12-02-74	7.07
01482705	Delaware River at Oakwood Beach, N. J.	Lat 39°33'18", long 75°31'11", Salem County, on left bank on bulkhead piling at Oakwood Beach, 1.3 mi (2.1 km) south of mouth of Salem River, 2.4 mi (3.9 km) east of Reedy Point, Delaware, and 3.0 mi (4.8 km) southwest of Salem, New Jersey.	1965-75	12-02-74	a8.24

‡ Operated as a continuous-record gaging station.
a Gage datum, not to mean sea level datum.
b Furnished by National Ocean Survey.
c Furnished by Atlantic City Electric Co.

SECTION 2. WATER-QUALITY RECORDS

01368000 WALLKILL RIVER NEAR UNIONVILLE, N. Y. (OWEN, N. J.)

LOCATION.--Lat 41°15'36", long 74°32'56", Sussex County, New Jersey, at bridge at gaging station on the Bassetts Bridge Road, 0.6 mi (1.0 km) upstream from small tributary, 2.0 mi (3.2 km) south of the New York-New Jersey State line, and 3.0 mi (4.8 km) south of Unionville, N. Y.

DRAINAGE AREA.--140 mi² (363 km²).

PERIOD OF RECORD.--Chemical analyses: Water years 1963-72 (partial-record station), October 1972 to September 1975.

REMARKS.--Miscellaneous storm sediment sample collected during water year 1971.

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	TEMPERATURE (DEG C)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	DISSOLVED OXYGEN (MG/L)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L)	IMMEDIATE COLIFORM (COL. PER 100 ML)	FECAL COLIFORM (EC BROTH) (MPN)	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)	TURBIDITY (JTU)
OCT. 31...	1230	100	5.5	160	6.5	10.4	2.0	3300	--	745	265	--
NOV. 22...	1445	200	4.9	282	7.4	11.2	1.4	750	--	370	145	--
MAR. 13...	1455	322	5.1	209	8.0	12.2	2.2	--	130	--	--	6
APR. 09...	1100	400	5.4	241	7.0	11.2	2.2	--	220	70	--	5
MAY 12...	1035	222	16.3	276	7.7	7.8	2.3	--	920	270	--	9
JUNE 05...	1650	133	18.3	330	7.3	5.9	--	--	1600	600	--	7
JULY 09...	1605	40	26.0	376	--	10.2	2.6	--	<200	40	--	7
AUG. 07...	1500	200	19.5	340	7.0	7.6	1.6	--	>2400	1640	--	6
SEP. 10...	1505	92	18.0	354	6.6	6.1	2.3	--	--	3200	--	6

DATE	COLOR (PLATINUM-COBALT UNITS)	TOTAL ORGANIC NITROGEN (N) (MG/L)	AMMONIA NITROGEN (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL ORTHO PHOSPHORUS (P) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)	ALKALINITY AS CACO3 (MG/L)	CARBONATE (CO3) (MG/L)
OCT. 31...	--	--	--	--	--	--	--	--	--	--	--	--
NOV. 22...	--	.03	.25	.01	.49	.28	.78	.05	.02	7.6	--	--
MAR. 13...	10	.28	.11	.01	.88	.39	1.3	.03	.01	5.0	76	0
APR. 09...	6	.20	.08	.01	.67	.28	.96	.04	.02	5.1	70	0
MAY 12...	14	.41	.09	.04	.49	.50	1.0	.07	.03	4.6	87	0
JUNE 05...	22	.53	.19	.07	.63	.72	1.4	.09	.02	15	109	0
JULY 09...	7	.49	.01	.04	.76	.50	1.3	.11	.05	5.9	134	--
AUG. 07...	13	.42	.12	.04	.64	.54	1.2	.08	.06	6.9	111	0
SEP. 10...	8	.46	.05	.03	.66	.51	1.2	.05	.03	7.5	--	0

DATE	BICARBONATE (HCO3) (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	TOTAL NONFILTRABLE RESIDUE (MG/L)
OCT. 31...	--	--	--	--	--	--	--	--	--	--	--	--
NOV. 22...	--	--	--	--	--	--	--	--	--	--	--	--
MAR. 13...	93	1.5	120	40	30	10	12	1.3	21	28	161	8
APR. 09...	85	2.2	99	29	26	8.2	9.8	1.3	17	22	144	6
MAY 12...	106	3.4	110	27	30	9.4	9.8	1.2	18	21	157	24
JUNE 05...	133	11	96	0	25	8.1	11	1.2	22	21	203	2[illegible]
JULY 09...	163	--	160	28	40	15	13	1.8	25	24	245	19
AUG. 07...	135	3.4	130	24	34	12	12	2.0	21	19	206	22
SEP. 10...	--	--	130	--	35	11	13	2.1	21	23	201	11

01377000 HACKENSACK RIVER AT RIVERVALE, N. J.

LOCATION.--Lat 40°59'55", long 73°59'27", Bergen County, at bridge at gaging station at Westwood Avenue in Rivervale, 1.5 mi (2.4 km) upstream from Pascack Brook, 4.6 mi (7.4 km) upstream from Oradell Dam, and 27.2 mi (43.8 km) upstream from mouth.

DRAINAGE AREA.--58.0 mi² (150 km²).

PERIOD OF RECORD.--Chemical analyses: Water years 1968-72 (partial-record station), October 1972 to September 1975.

REMARKS.--Miscellaneous chemical samples collected during water years 1962, 1964-67.
Miscellaneous storm sediment samples collected during water years 1971-75.

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	TEMPERATURE (DEG C)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	DISSOLVED OXYGEN (MG/L)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L)	IMMEDIATE COLIFORM (COL. PER 100 ML)	FECAL COLIFORM (EC BROTH) (MPN)	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)	TURBIDITY (JTU)
OCT. 10...	1215	17	11.6	293	7.9	9.8	1.9	2560	--	604	1360	--
NOV. 22...	1100	94	4.9	295	7.8	12.3	2.1	660	--	472	70	--
MAR. 13...	1015	102	4.1	329	7.9	12.6	2.4	--	130	164	--	7
APR. 08...	1015	83	4.0	316	7.2	--	3.1	--	70	20	--	7
MAY 13...	1200	108	15.2	298	7.0	9.3	4.1	--	>2400	3260	--	8
JUNE 05...	1050	25	17.3	335	7.1	6.7	2.9	--	700	1600	--	5
JULY 09...	1020	79	23.5	302	8.2	7.0	1.9	--	<200	100	--	6
AUG. 07...	1110	50	22.9	279	8.2	7.2	3.1	--	1700	820	--	4
SEP. 10...	1015	124	17.0	312	7.5	8.7	1.4	--	--	140	--	6

DATE	COLOR (PLATINUM-COBALT UNITS)	TOTAL ORGANIC NITROGEN (N) (MG/L)	AMMONIA NITROGEN (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL ORTHO PHOSPHORUS (P) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)	ALKALINITY AS CACO3 (MG/L)	CARBONATE (CO3) (MG/L)
OCT. 10...	--	--	--	--	--	--	--	--	--	--	--	--
NOV. 22...	--	.43	.40	.04	.39	.83	1.3	.09	.01	7.6	--	--
MAR. 13...	10	.44	.20	.02	.73	.64	1.4	.04	.04	9.5	66	0
APR. 08...	6	.49	.04	.01	.45	.53	.99	.05	.01	6.8	71	0
MAY 13...	7	.58	.14	.03	.38	.72	1.1	.07	.02	5.9	62	0
JUNE 05...	9	.48	.32	.08	3.0	.80	3.9	.06	.02	11	84	0
JULY 09...	3	.39	.15	.03	.29	.54	.86	.06	.01	6.7	73	0
AUG. 07...	3	.43	.07	.01	.29	.50	.71	.04	.01	19	67	0
SEP. 10...	1	.70	.01	.00	.09	.71	.80	.04	.01	12	82	0

DATE	BICARBONATE (HCO3) (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	TOTAL NONFILTRABLE RESIDUE (MG/L)
OCT. 10...	--	--	--	--	--	--	--	--	--	--	--	--
NOV. 22...	--	--	--	--	--	--	--	--	--	--	--	--
MAR. 13...	80	1.6	96	30	30	5.8	24	2.0	43	25	186	12
APR. 08...	87	8.0	96	25	29	5.7	24	1.7	42	23	183	16
MAY 13...	76	1.9	89	27	28	4.7	21	1.7	37	23	179	19
JUNE 05...	102	13	95	11	29	5.5	18	1.6	36	21	195	11
JULY 09...	89	.9	98	25	30	5.5	21	1.9	36	21	190	22
AUG. 07...	82	.8	89	22	26	5.0	18	1.9	27	17	180	22
SEP. 10...	100	5.1	100	19	31	5.0	18	1.7	32	16	120	22

01377000 HACKENSACK RIVER AT RIVERVALE, N. J.--Continued

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	TEMPERATURE (DEG C)	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)
OCT.					
16...	1215	13.0	144	63	24
DEC.					
16...	1250	4.6	31	13	1.1
MAR.					
13...	1015	4.1	100	8	2.2
APR.					
03...	1245	8.2	349	168	158
03...	1535	7.9	485	133	174

01378500 HACKENSACK RIVER AT NEW MILFORD, N. J.

LOCATION.--Lat 40°56'52", long 74°01'34", Bergen County, at Oradell Avenue bridge in Oradell, 1,000 ft (305 m) upstream of gaging station.

DRAINAGE AREA.--113 mi² (293 km²).

PERIOD OF RECORD.--Chemical analyses: Water years 1968-72 (partial-record station), October 1972 to September 1975.

REMARKS.--Miscellaneous chemical samples collected during 1924, 1926, 1952, 1962-67 water years. Discharges given for gaging station. Summer periods of no flow represent days when the control weirs were sandbagged, yet water continued to be diverted at gage directly to municipal water supply plant.

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	INSTANTANEOUS DIS-CHARGE (CFS)	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	DIS-SOLVED OXYGEN (MG/L)	BIO-CHEM-ICAL OXYGEN DEMAND 5 DAY (MG/L)	IMME-DIATE COLI-FORM (COL. PER 100 ML)	FECAL COLI-FORM (EC BROTH) (MPN)	FECAL COLI-FORM (COL. PER 100 ML)	STREP-TOCOCCI (COL-ONIES PER 100 ML)	TUR-BID-ITY (JTU)
OCT. 10...	1130	17	13.7	283	8.0	10.4	2.2	224	--	112	62	--
NOV. 22...	1035	17	6.5	316	8.0	11.2	2.3	234	--	176	24	--
MAR. 13...	0915	18	4.1	367	8.0	12.6	4.0	--	23	38	--	5
APR. 08...	0850	17	5.5	344	9.4	12.6	1.6	--	<2	3	--	4
MAY 13...	1020	18	15.5	318	8.0	11.0	3.5	--	33	22	--	3
JUNE 05...	0945	.00	20.9	333	7.1	6.9	2.1	--	1600	310	--	3
JULY 09...	0900	.00	24.1	328	7.7	8.6	1.7	--	240	2	--	3
AUG. 07...	1015	.00	24.3	285	7.8	8.4	.8	--	<2	8	--	2
SEP. 10...	0915	.00	19.0	313	7.8	8.8	1.3	--	--	64	--	4

DATE	COLOR (PLAT-INUM-COBALT UNITS)	TOTAL ORGANIC NITRO-GEN (N) (MG/L)	AMMONIA NITRO-GEN (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	TOTAL ORTHO PHOS-PHORUS (P) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	CAR-BONATE (CO3) (MG/L)
OCT. 10...	--	--	--	--	--	--	--	--	--	--	--	--
NOV. 22...	--	.26	.31	.03	.50	.57	1.2	.05	.01	18	--	--
MAR. 13...	10	.32	.15	.01	1.1	.47	1.6	.01	.01	5.4	73	0
APR. 08...	2	.30	.02	.00	.60	.32	.92	.02	.00	4.1	57	0
MAY 13...	4	.45	.09	.03	.76	.54	1.3	.05	.01	5.4	80	0
JUNE 05...	10	.38	.23	.05	.93	.61	1.6	.03	.00	13	--	0
JULY 09...	3	.35	.22	.04	.75	.57	1.4	.06	.01	8.3	91	0
AUG. 07...	1	.44	.07	.02	.25	.51	.78	.01	.01	6.9	57	0
SEP. 10...	1	.53	.02	.03	.34	.55	.92	.04	.01	7.2	85	0

DATE	BICAR-BONATE (HCO3) (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	TOTAL NON-FILT-RABLE RESIDUE (MG/L)
OCT. 10...	--	--	--	--	--	--	--	--	--	--	--	--
NOV. 22...	--	--	--	--	--	--	--	--	--	--	--	--
MAR. 13...	89	1.4	110	41	34	7.0	27	2.2	47	30	208	8
APR. 08...	69	.0	110	49	32	6.3	25	1.9	46	30	210	14
MAY 13...	98	1.6	110	33	35	6.4	23	1.6	39	30	207	5
JUNE 05...	--	--	110	--	33	6.2	16	1.4	30	26	206	10
JULY 09...	111	3.5	120	26	35	7.1	19	2.1	32	26	211	14
AUG. 07...	69	1.7	91	34	27	5.7	15	2.0	22	31	179	3
SEP. 10...	104	2.6	120	31	35	7.0	15	1.9	26	21	177	13

01379000 PASSAIC RIVER NEAR MILLINGTON, N. J.

LOCATION.--Lat 40°40'48", long 74°31'45", Somerset County, 200 ft (61 m) upstream from gaging station at Davis Bridge, 0.7 mi (1.1 km) northwest of Millington, and 1.8 mi (2.9 km) downstream from Black Brook.

DRAINAGE AREA.--55.4 mi² (143.5 km²).

PERIOD OF RECORD.--Chemical analyses: Water years 1962-72 (partial-record station), October 1972 to September 1975.

REMARKS.--Miscellaneous chemical samples collected during water years 1923-25.
Miscellaneous storm sediment samples collected during water years 1971-75.

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	TEMPERATURE (DEG C)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	DISSOLVED OXYGEN (MG/L)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L)	IMMEDIATE COLIFORM (COL. PER 100 ML)	FECAL COLIFORM (EC BROTH) (MPN)	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)	TURBIDITY (JTU)
OCT.												
17...	1130	E220	11.0	140	6.7	6.0	4.6	14400	--	6540	7920	--
NOV.												
20...	1130	36	6.0	188	7.6	9.7	1.7	400	--	100	120	--
MAR.												
20...	1020	E450	7.5	164	7.7	10.8	7.6	--	790	2000	--	40
APR.												
09...	1100	68	9.0	189	7.5	10.9	3.6	--	330	300	--	3
MAY												
14...	1130	205	10.0	172	8.0	5.0	4.6	--	2400	9200	--	15
JUNE												
05...	1140	76	18.0	161	7.0	4.6	3.2	--	1670	1900	--	7
JULY												
10...	1015	50	21.7	156	7.2	4.2	2.2	--	1300	1360	--	11
AUG.												
07...	1130	93	19.0	164	7.2	5.1	1.9	--	940	--	--	6
SEP.												
17...	1120	24	13.0	231	8.2	8.6	--	--	270	1100	--	6

DATE	COLOR (PLATINUM-COBALT UNITS)	TOTAL ORGANIC NITROGEN (N) (MG/L)	AMMONIA NITROGEN (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL ORTHO PHOSPHORUS (P) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)	ALKALINITY AS CACO3 (MG/L)	CARBONATE (CO3) (MG/L)
OCT.												
17...	--	--	--	--	--	--	--	--	--	--	--	--
NOV.												
20...	--	.17	.38	.00	.20	.55	.75	.13	.08	16	--	--
MAR.												
20...	60	.36	.07	.00	.23	.43	.66	.08	.02	11	16	0
APR.												
09...	10	.13	.04	.01	.24	.17	.42	.05	.03	5.7	45	0
MAY												
14...	52	.59	.03	.01	.08	.62	.71	.20	.11	12	34	0
JUNE												
05...	40	--	--	--	--	--	--	--	--	20	44	0
JULY												
10...	30	.68	.05	.01	.14	.73	.88	.21	.07	8.4	48	0
AUG.												
07...	30	.16	.10	.01	.20	.26	.47	.09	.09	9.3	42	0
SEP.												
17...	8	.35	.01	.01	.19	.36	.56	.05	.04	8.7	53	0

DATE	BICARBONATE (HCO3) (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	TOTAL NONFILTRABLE RESIDUE (MG/L)
OCT.												
17...	--	--	--	--	--	--	--	--	--	--	--	--
NOV.												
20...	--	--	--	--	--	--	--	--	--	--	--	--
MAR.												
20...	19	.6	35	19	9.0	3.0	14	1.4	24	13	106	12
APR.												
09...	55	2.0	59	14	16	4.7	15	1.1	15	21	114	12
MAY												
14...	42	.7	54	20	14	4.7	11	1.4	17	11	123	16
JUNE												
05...	54	8.6	56	11	14	5.0	9.1	1.2	13	11	125	24
JULY												
10...	58	5.9	53	6	13	5.1	10	1.5	14	12	110	15
AUG.												
07...	51	5.1	54	12	13	5.2	9.2	2.1	10	11	119	15
SEP.												
17...	64	.6	73	20	17	7.3	13	1.5	15	10	161	26

01379000 PASSAIC RIVER NEAR MILLINGTON, N. J.--Continued

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	TEMPER-ATURE (DEG C)	INSTAN-TANEOUS DIS-CHARGE (CFS)	SUS-PENDED SEDI-MENT (MG/L)	SUS-PENDED SEDI-MENT DIS-CHARGE (T/DAY)
OCT.					
16...	1350	12.3	170	42	19
NOV.					
13...	1130	11.0	111	11	3.3
14...	1325	7.3	140	6	2.3
MAR.					
20...	1020	7.5	450	29	35
APR.					
03...	1045	9.0	103	10	2.8
03...	1700	9.5	129	13	4.5

01379500 PASSAIC RIVER NEAR CHATHAM, N. J.

LOCATION.--Lat 40°43'31", long 74°23'23", Morris County, 150 ft (45.7 m) upstream from gaging station at Stanley Avenue bridge in Chatham, and 0.3 mi (0.5 km) upstream from Canoe Brook.

DRAINAGE AREA.--100 mi² (259 km²).

PERIOD OF RECORD.--Chemical analyses: August 1962 to September 1965, water years 1966-72 (partial-record station), October 1972 to September 1975.
Water temperatures: October 1966 to September 1968.
Sediment records: July 1963 to September 1968.

REMARKS.--Miscellaneous storm sediment samples collected during water years 1971-73.

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	TEMPERATURE (DEG C)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	DISSOLVED OXYGEN (MG/L)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L)	IMMEDIATE COLIFORM (COL. PER 100 ML)	FECAL COLIFORM (EC BROTH) (MPN)	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)	TURBIDITY (JTU)
OCT. 17...	1145	411	12.0	162	6.9	7.2	6.2	--	--	9400	15600	--
NOV. 20...	1150	60	6.0	387	7.4	9.9	2.3	700	--	100	8	--
MAR. 20...	1140	805	7.5	206	7.0	11.6	3.1	--	>2400	1970	--	100
APR. 09...	1140	120	7.5	273	7.3	12.1	3.0	--	50	<100	--	9
MAY 14...	1230	452	10.5	222	7.0	6.4	8.2	--	1400	7400	--	40
JUNE 05...	1310	105	18.3	333	7.0	4.4	4.4	--	200	2000	--	7
JULY 10...	1140	74	23.0	270	7.3	3.1	6.0	--	<200	10000	--	30
AUG. 07...	1355	E140	20.5	200	7.1	5.3	7.0	--	7900	--	--	23
SEP. 17...	1215	39	14.0	556	7.9	7.0	--	--	800	100	--	4

DATE	COLOR (PLATINUM-COBALT UNITS)	TOTAL ORGANIC NITROGEN (N) (MG/L)	AMMONIA NITROGEN (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL ORTHO PHOSPHORUS (P) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)	ALKALINITY AS CACO3 (MG/L)	CARBONATE (CO3) (MG/L)
OCT. 17...	--	--	--	--	--	--	--	--	--	--	--	--
NOV. 20...	--	.63	.06	.01	.69	.69	1.4	.08	.39	9.5	--	--
MAR. 20...	40	.57	.20	.00	.31	.77	1.1	.10	.03	11	10	0
APR. 09...	19	.33	.51	.02	.50	.84	1.4	.26	.16	8.6	45	0
MAY 14...	44	.87	.33	.03	.40	1.2	1.6	.29	.15	10	39	0
JUNE 05...	45	.92	.38	.07	.52	1.3	1.9	.42	.24	25	48	0
JULY 10...	17	1.0	1.0	.15	.81	2.0	3.0	.51	.33	12	55	0
AUG. 07...	25	.70	.30	.09	.74	1.0	1.8	.19	.19	8.7	47	0
SEP. 17...	1	.20	.01	.01	.73	.21	.95	.05	.03	14	57	0

DATE	BICARBONATE (HCO3) (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	HARDNESS (CA+MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	TOTAL NONFILTRABLE RESIDUE (MG/L)
OCT. 17...	--	--	--	--	--	--	--	--	--	--	--	--
NOV. 20...	--	--	--	--	--	--	--	--	--	--	--	--
MAR. 20...	22	.4	42	24	11	3.5	20	1.6	34	17	130	69
APR. 09...	55	4.4	70	25	18	6.0	22	1.6	34	29	156	22
MAY 14...	47	1.2	63	24	16	5.6	19	1.8	26	21	145	66
JUNE 05...	58	9.3	62	15	16	5.4	37	1.9	42	18	190	66
JULY 10...	67	5.4	70	15	18	6.0	25	2.4	31	27	233	35
AUG. 07...	57	7.2	66	19	17	5.6	12	2.0	13	19	137	51
SEP. 17...	70	1.4	87	30	21	8.4	9.3	2.2	9.1	20	156	17

01380500 ROCKAWAY RIVER ABOVE RESERVOIR AT BOONTON, N. J.

LOCATION.--Lat 40°54'00", long 74°24'40", Morris County, at gaging station on right bank at Morris Avenue in Boonton, 1.8 mi (2.9 km) upstream from dam on Boonton Reservoir.

DRAINAGE AREA.--116 mi² (300 km²).

PERIOD OF RECORD.--Chemical analyses: November 1962 to September 1965, water years 1966-72 (partial-record station), October 1972 to September 1975.

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	TEMPERATURE (DEG C)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	DISSOLVED OXYGEN (MG/L)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L)	IMMEDIATE COLIFORM (COL. PER 100 ML)	FECAL COLIFORM (EC BROTH) (MPN)	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)	TURBIDITY (JTU)
OCT. 17...	1140	453	--	143	7.8	10.6	3.7	4920	--	4160	3300	--
NOV. 21...	1230	192	7.0	178	8.1	11.6	2.0	1140	--	270	230	--
MAR. 18...	1250	235	6.0	157	7.9	12.4	1.4	--	78	32	--	3
APR. 09...	1330	375	5.6	150	8.2	12.8	1.3	--	33	16	--	2
MAY 13...	1215	521	16.9	108	7.4	9.9	2.3	--	1600	1620	--	4
JUNE 12...	1315	469	13.3	166	7.8	9.7	2.1	--	5400	1140	--	3
JULY 09...	1430	95	23.0	196	7.8	8.0	1.4	--	130	305	--	2
AUG. 14...	1930	123	25.0	216	--	8.2	2.5	--	130	5	--	2
SEP. 09...	1300	89	18.3	254	7.1	9.0	.5	--	--	100	--	2

DATE	COLOR (PLATINUM-COBALT UNITS)	TOTAL ORGANIC NITROGEN (N) (MG/L)	AMMONIA NITROGEN (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL ORTHO PHOSPHORUS (P) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)	ALKALINITY AS CACO3 (MG/L)	CARBONATE (CO3) (MG/L)
OCT. 17...	--	--	--	--	--	--	--	--	--	--	--	--
NOV. 21...	--	.21	.12	.00	.34	.33	.67	.06	.02	4.1	--	--
MAR. 18...	4	.10	.02	.01	.38	.12	.51	.02	.01	7.2	30	0
APR. 09...	3	.06	.01	.01	.35	.07	.43	.02	.01	3.3	28	0
MAY 13...	10	.28	.04	.02	.34	.32	.68	.04	.01	5.1	30	0
JUNE 12...	22	.35	.01	.01	.43	.36	.80	.06	.01	5.4	37	0
JULY 09...	7	.21	.01	.01	.55	.22	.78	.05	.02	6.7	50	0
AUG. 14...	16	.30	.00	.01	.53	.30	.84	.01	.01	4.5	49	--
SEP. 09...	7	.18	.00	.01	.42	.18	.61	.03	.01	8.1	--	0

DATE	BICARBONATE (HCO3) (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	TOTAL NONFILTRABLE RESIDUE (MG/L)
OCT. 17...	--	--	--	--	--	--	--	--	--	--	--	--
NOV. 21...	--	--	--	--	--	--	--	--	--	--	--	--
MAR. 18...	37	.7	43	12	13	2.5	12	1.0	22	17	121	3
APR. 09...	34	.3	51	24	14	4.0	9.3	1.1	16	15	93	10
MAY 13...	36	2.3	49	19	13	3.9	9.2	1.0	17	15	103	9
JUNE 12...	45	1.1	56	19	14	5.0	9.5	1.0	17	14	105	11
JULY 09...	61	1.5	73	23	18	6.7	11	1.3	22	17	126	8
AUG. 14...	60	--	75	26	19	6.7	11	1.1	19	16	118	5
SEP. 09...	--	--	87	--	21	8.5	12	1.3	21	17	150	2

01381200 ROCKAWAY RIVER AT PINE BROOK, N. J.

LOCATION.--Lat 40°51'29", long 74°20'53", Morris County, at bridge on U.S. Route 46, at intersection of New Road.

DRAINAGE AREA.--136 mi^2 (352 km^2).

PERIOD OF RECORD.--Chemical analyses: June 1963 to September 1965, water years 1966-72 (partial-record station), October 1972 to September 1975.

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	TEMPERATURE (DEG C)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	DISSOLVED OXYGEN (MG/L)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L)	IMMEDIATE COLIFORM (COL. PER 100 ML)	FECAL COLIFORM (EC BROTH) (MPN)	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)	TURBIDITY (JTU)	COLOR (PLATINUM-COBALT UNITS)
OCT. 30...	1320	12.5	234	7.0	8.2	4.6	6900	--	170	260	--	--
NOV. 21...	1200	8.5	247	7.5	8.0	3.0	2150	--	100	165	--	--
MAR. 20...	1255	4.5	181	7.5	12.6	2.4	--	220	70	--	20	7
APR. 25...	1055	11.1	186	7.4	10.0	4.0	--	>2400	200	--	9	10
MAY 08...	1220	12.1	179	7.6	10.6	3.2	--	540	100	--	3	11
JUNE 11...	1100	17.8	193	7.4	6.9	5.8	--	170	--	--	3	17
JULY 23...	1300	26.0	128	7.3	7.0	6.6	--	70	600	--	10	16
AUG. 13...	1400	22.0	320	6.6	5.7	4.8	--	1100	360	--	3	9
SEP. 11...	1445	18.5	414	--	8.1	8.2	--	--	4100	--	4	2

DATE	TOTAL ORGANIC NITROGEN (N) (MG/L)	AMMONIA NITROGEN (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL ORTHO PHOSPHORUS (P) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)	ALKALINITY AS CACO3 (MG/L)	CARBONATE (CO3) (MG/L)	BICARBONATE (HCO3) (MG/L)
OCT. 30...	--	--	--	--	--	--	--	--	--	--	--	--
NOV. 21...	.17	.64	.05	1.1	.81	1.9	.52	.30	6.7	--	--	--
MAR. 20...	.24	.11	.01	.34	.35	.70	.11	.04	4.3	25	0	31
APR. 25...	.05	.31	.04	.47	.36	.87	.24	.15	6.0	34	0	41
MAY 08...	.37	.11	.03	.41	.48	.92	.14	.09	7.2	35	0	43
JUNE 11...	.57	.33	.14	.47	.90	1.5	.28	.16	6.	44	--	54
JULY 23...	.76	.11	.05	.18	.87	1.1	.13	.03	9.	34	0	42
AUG. 13...	.57	.83	.76	1.3	1.4	3.5	.57	.57	7.9	--	0	--
SEP. 11...	.70	2.3	.75	1.8	3.0	5.5	1.1	.09	15	84	--	102

DATE	CARBON DIOXIDE (CO2) (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	TOTAL NONFILTRABLE RESIDUE (MG/L)
OCT. 30...	--	--	--	--	--	--	--	--	--	--	--
NOV. 21...	--	--	--	--	--	--	--	--	--	--	--
MAR. 20...	1.6	49	24	13	4.0	13	1.1	23	18	113	60
APR. 25...	2.6	56	23	14	5.2	13	1.4	20	20	109	19
MAY 08...	1.7	60	24	15	5.4	12	1.4	19	18	113	10
JUNE 11...	3.4	63	19	16	5.7	13	1.5	22	20	113	10
JULY 23...	3.4	51	16	13	4.4	8.6	1.1	14	11	89	1
AUG. 13...	--	82	--	19	8.3	21	2.9	32	25	200	16
SEP. 11...	--	110	30	29	10	20	4.1	43	29	263	22

01381500 WHIPPANY RIVER AT MORRISTOWN, N. J.

LOCATION.--Lat 40°48'21", long 74°27'22", Morris County, at gaging station at Morristown sewage-disposal plant, 0.8 mi (1.3 km) downstream from Morristown, and 9.0 mi (14.5 km) upstream from mouth.

DRAINAGE AREA.--29.4 mi² (76.2 km²).

PERIOD OF RECORD.--Chemical analyses: November 1962 to September 1965, water years 1966-72 (partial-record station), October 1972 to September 1975.

REMARKS.--Miscellaneous chemical samples collected during water years 1923, 1924, 1926.
Miscellaneous storm sediment samples collected during water years 1971-75.

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	TEMPERATURE (DEG C)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	DISSOLVED OXYGEN (MG/L)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L)	IMMEDIATE COLIFORM (COL. PER 100 ML)	FECAL COLIFORM (EC BROTH) (MPN)	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)	TURBIDITY (JTU)
OCT.												
17...	1205	100	11.0	160	7.5	10.0	5.8	55000	--	12000	17150	--
NOV.												
21...	1325	35	7.0	205	7.9	12.0	2.4	26000	--	5400	1450	--
MAR.												
10...	1330	56	8.7	250	8.2	13.0	1.6	--	200	6000	--	6
APR.												
09...	1420	65	9.2	205	7.8	--	5.1	--	400	--	--	5
MAY												
13...	1315	143	17.0	208	7.4	9.5	9.6	--	13000	47500	--	6
JUNE												
12...	1420	222	16.0	190	7.2	--	17	--	92000	10200	--	15
JULY												
09...	1325	52	23.5	231	7.6	8.4	4.2	--	92000	26000	--	3
AUG.												
14...	1745	48	24.9	280	--	9.8	2.7	--	>2400	66000	--	3
SEP.												
09...	1340	29	19.0	293	7.1	10.1	5.0	--	--	45000	--	2

DATE	COLOR (PLATINUM-COBALT UNITS)	TOTAL ORGANIC NITROGEN (N) (MG/L)	AMMONIA NITROGEN (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL ORTHO PHOSPHORUS (P) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)	ALKALINITY AS CACO3 (MG/L)	CARBONATE (CO3) (MG/L)
OCT.												
17...	--	--	--	--	--	--	--	--	--	--	--	--
NOV.												
21...	--	.04	.82	.06	1.4	.86	2.4	.58	.41	4.3	--	--
MAR.												
10...	5	.15	.34	.02	1.1	.49	1.6	.27	.21	.8	39	0
APR.												
09...	4	.26	.37	.02	1.3	.63	1.9	.25	.16	3.7	49	0
MAY												
13...	9	.70	.24	.04	.81	.94	1.8	.25	.10	5.9	38	0
JUNE												
12...	21	.32	.21	.05	.86	.53	1.4	.30	.14	7.5	35	0
JULY												
09...	2	.13	.66	.15	1.6	.79	2.5	.42	.29	6.4	53	0
AUG.												
14...	4	.37	.15	.14	1.3	.52	1.9	.20	.20	3.4	53	--
SEP.												
09...	2	.86	.24	.14	1.5	1.1	2.7	.27	.10	4.7	--	0

DATE	BICARBONATE (HCO3) (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	TOTAL NONFILTRABLE RESIDUE (MG/L)
OCT.												
17...	--	--	--	--	--	--	--	--	--	--	--	--
NOV.												
21...	--	--	--	--	--	--	--	--	--	--	--	--
MAR.												
10...	48	.5	52	13	15	3.5	21	1.4	35	23	158	12
APR.												
09...	49	1.2	70	37	22	5.5	13	1.4	20	20	128	14
MAY												
13...	46	2.9	58	21	16	4.5	15	1.5	19	28	134	40
JUNE												
12...	43	4.3	58	22	15	4.9	15	2.1	19	23	117	30
JULY												
09...	65	2.6	72	18	18	6.5	17	2.2	23	25	170	11
AUG.												
14...	65	--	80	26	20	7.2	19	1.9	21	31	161	10
SEP.												
09...	--	--	92	--	23	8.3	17	2.2	24	26	201	4

01381500 WHIPPANY RIVER AT MORRISTOWN, N. J.--Continued

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	TEMPER-ATURE (DEG C)	INSTAN-TANEOUS DIS-CHARGE (CFS)	SUS-PENDED SEDI-MENT (MG/L)	SUS-PENDED SEDI-MENT DIS-CHARGE (T/DAY)
APR.					
03...	1210	9.6	219	141	83
03...	1615	8.9	219	86	51
JUNE					
12...	1420	16.0	222	64	38

01381800 WHIPPANY RIVER NEAR PINE BROOK, N. J.

LOCATION.--Lat 40°50'42", long 74°20'51", Morris County, at bridge on New Road, 0.3 mi (0.5 km) southeast of overpass for Interstate 280.

DRAINAGE AREA.--68.5 mi² (177 km²).

PERIOD OF RECORD.--Chemical analyses: June 1963 to September 1965, water years 1966-72 (partial-record station), October 1972 to September 1975.

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	DIS-SOLVED OXYGEN (MG/L)	BIO-CHEM-ICAL OXYGEN DEMAND 5 DAY (MG/L)	IMME-DIATE COLI-FORM (COL. PER 100 ML)	FECAL COLI-FORM (EC BROTH) (MPN)	FECAL COLI-FORM (COL. PER 100 ML)	STREP-TOCOCCI (COL-ONIES PER 100 ML)	TUR-BID-ITY (JTU)	COLOR (PLAT-INUM-COBALT UNITS)
OCT. 30...	1335	12.0	300	6.8	7.0	6.8	14200	—	1800	600	—	—
NOV. 21...	1220	9.2	342	7.4	7.7	7.7	102000	—	20000	8400	—	—
MAR. 20...	1320	7.4	227	7.0	9.5	3.8	—	2200	4500	—	30	50
APR. 25...	1005	13.7	270	7.5	6.9	5.4	—	800	<20	—	15	23
MAY 08...	1130	14.9	244	7.1	6.6	3.4	—	17000	8400	—	5	37
JUNE 11...	0955	17.4	244	7.0	4.2	5.6	—	7900	—	—	8	40
JULY 23...	1400	26.0	120	7.2	1.0	6.2	—	170	2000	—	15	90
AUG. 13...	1430	26.0	355	6.6	5.0	7.6	—	>240000	22000	—	7	3
SEP. 11...	1530	19.0	447	—	7.4	7.4	—	—	16400	—	7	7

DATE	TOTAL ORGANIC NITRO-GEN (N) (MG/L)	AMMONIA NITRO-GEN (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	TOTAL ORTHO PHOS-PHORUS (P) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	CAR-BONATE (CO3) (MG/L)	BICAR-BONATE (HCO3) (MG/L)
OCT. 30...	—	—	—	—	—	—	—	—	—	—	—	—
NOV. 21...	.40	1.7	.10	1.6	2.1	3.8	.83	.46	12	—	—	—
MAR. 20...	.38	.44	.03	.55	.82	1.4	.20	.09	6.0	28	0	34
APR. 25...	.53	.07	.07	.89	1.4	2.4	.35	.10	9.6	43	0	53
MAY 08...	.63	.31	.08	.74	.94	1.8	.24	.14	13	48	0	59
JUNE 11...	.82	.48	.10	.69	1.3	2.1	.38	.14	7.9	69	—	84
JULY 23...	.82	.14	.02	.09	.96	1.1	.41	.17	12	—	0	—
AUG. 13...	.83	.57	.24	1.6	1.4	3.2	.25	.27	9.5	57	0	69
SEP. 11...	.78	.82	.23	1.5	1.6	3.3	.44	.35	8.3	—	—	—

DATE	CARBON DIOXIDE (CO2) (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	TOTAL NON-FILT-RABLE RESIDUE (MG/L)
OCT. 30...	—	—	—	—	—	—	—	—	—	—	—
NOV. 21...	—	—	—	—	—	—	—	—	—	—	—
MAR. 20...	5.4	46	10	13	3.2	22	1.7	36	18	141	30
APR. 25...	2.7	74	30	19	6.4	22	1.9	27	30	165	25
MAY 08...	7.5	83	34	20	8.0	17	2.2	26	26	169	22
JUNE 11...	—	87	18	23	7.2	15	2.0	20	24	179	24
JULY 23...	5.6	55	—	15	4.3	8.6	2.6	10	11	116	2
AUG. 13...	—	91	34	26	6.3	15	1.5	22	19	151	30
SEP. 11...	—	130	—	32	11	34	2.8	32	50	284	15

01382000 PASSAIC RIVER AT TWO BRIDGES, N. J.

LOCATION.--Lat 40°53'40", long 74°16'23", Passaic County, at bridge on Two Bridges Road, just upstream from Pompton River, and 0.3 mi (0.5 km) northeast of Two Bridges.

DRAINAGE AREA.--361 mi² (935 km²).

PERIOD OF RECORD.--Chemical analyses: June 1963 to September 1965, water years 1966-68 (partial-record station), July 1969 to September 1975.
Water temperatures: October 1962 to September 1974.

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	DIS-SOLVED OXYGEN (MG/L)	BIO-CHEM-ICAL OXYGEN DEMAND 5 DAY (MG/L)	IMME-DIATE COLI-FORM (COL. PER 100 ML)	FECAL COLI-FORM (EC BROTH) (MPN)	FECAL COLI-FORM (COL. PER 100 ML)	STREP-TOCOCCI (COL-ONIES PER 100 ML)	TUR-BID-ITY (JTU)	COLOR (PLAT-INUM-COBALT UNITS)
OCT. 30...	1250	11.2	—	6.9	5.7	5.4	1200	—	160	156	—	—
NOV. 21...	1130	7.7	402	7.4	7.7	5.4	1460	—	60	20	—	—
MAR. 20...	1135	7.0	335	7.3	9.5	3.3	—	790	250	—	20	29
APR. 24...	1105	12.0	384	7.3	6.2	—	—	40	160	—	10	10
MAY 08...	1315	14.9	191	7.3	7.3	1.4	—	80	400	—	9	36
JUNE 11...	1235	17.2	199	7.3	5.3	4.3	—	490	—	—	6	42
AUG. 13...	1230	25.0	343	6.4	4.2	5.5	—	330	56	—	6	12
SEP. 11...	1300	19.0	405	—	7.9	4.0	—	—	152	—	0	4

DATE	TOTAL ORGANIC NITRO-GEN (N) (MG/L)	AMMONIA NITRO-GEN (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	TOTAL ORTHO PHOS-PHORUS (P) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	CAR-BONATE (CO3) (MG/L)	BICAR-BONATE (HCO3) (MG/L)
OCT. 30...	—	—	—	—	—	—	—	—	—	—	—	—
NOV. 21...	.30	3.1	.09	1.2	3.4	4.7	.90	.69	8.6	—	—	—
MAR. 20...	.30	1.2	.04	.61	1.5	2.2	.37	.22	6.6	43	0	53
APR. 24...	.80	.82	.11	1.3	1.7	3.1	.77	.51	6.1	70	0	85
MAY 08...	.62	.48	.06	.56	1.1	1.7	.35	.20	9.2	38	0	46
JUNE 11...	.09	.51	.08	.50	1.4	2.0	.43	.23	11	44	—	54
AUG. 13...	.70	1.4	.25	1.2	2.1	3.5	.32	.31	9.4	—	0	—
SEP. 11...	2.6	2.9	.28	1.9	5.5	7.7	.76	.63	12	—	—	—

DATE	CARBON DIOXIDE (CO2) (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	TOTAL NON-FILT-RABLE RESIDUE (MG/L)
OCT. 30...	—	—	—	—	—	—	—	—	—	—	—
NOV. 21...	—	—	—	—	—	—	—	—	—	—	—
MAR. 20...	4.3	67	23	21	3.5	31	1.9	44	31	191	35
APR. 24...	6.0	94	24	24	8.2	30	2.0	43	42	219	26
MAY 08...	3.7	64	26	17	5.2	13	1.6	20	20	135	30
JUNE 11...	4.3	59	15	15	5.3	14	1.9	19	18	130	31
AUG. 13...	—	98	—	25	8.7	25	2.0	30	34	236	23
SEP. 11...	—	88	—	24	6.9	16	1.5	45	44	300	2

PASSAIC RIVER BASIN

01382500 PEQUANNOCK RIVER AT MACOPIN INTAKE DAM, N. J.

LOCATION.--Lat 41°01'00", long 74°23'47", Morris County, 700 ft (213 m) downstream of gaging station at bridge at Macopin intake dam of Newark Water Works, 3.0 mi (4.8 km) upstream from Butler.

DRAINAGE AREA.--63.7 mi² (165.0 km²).

PERIOD OF RECORD.--Chemical analyses: Water years 1923, 1962-69, 1973 (partial-record station), October 1973 to September 1975.

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	TEMPERATURE (DEG C)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	DISSOLVED OXYGEN (MG/L)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L)	IMMEDIATE COLIFORM (COL. PER 100 ML)	FECAL COLIFORM (EC BROTH) (MPN)	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)	TURBIDITY (JTU)
OCT. 21...	1145	10	7.1	114	6.3	12.8	2.1	725	--	60	245	--
NOV. 22...	1340	14	5.3	104	7.6	12.2	1.1	25	--	20	72	--
MAR. 13...	1400	26	3.8	118	8.2	12.8	1.2	--	17	--	--	2
APR. 09...	0915	100	3.1	84	7.8	13.5	1.8	--	<2	<5	--	2
MAY 12...	1210	22	14.5	103	7.4	9.9	2.3	--	8	16	--	2
JUNE 05...	1500	11	17.8	130	7.7	8.4	1.9	--	33	56	--	2
JULY 09...	1450	8.4	25.0	140	8.0	8.4	1.0	--	70	92	--	1
AUG. 07...	1540	18	19.0	118	7.8	8.5	1.6	--	--	100	--	4
SEP. 10...	1345	4.5	17.4	178	7.5	8.9	.0	--	--	10	--	2

DATE	COLOR (PLATINUM-COBALT UNITS)	TOTAL ORGANIC NITROGEN (N) (MG/L)	AMMONIA NITROGEN (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL ORTHO PHOSPHORUS (P) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)	ALKALINITY AS CACO3 (MG/L)	CARBONATE (CO3) (MG/L)
OCT. 21...	--	--	--	--	--	--	--	--	--	--	--	--
NOV. 22...	--	.19	.22	.00	.07	.41	.48	.03	.00	15	--	--
MAR. 13...	10	.14	.04	.01	.18	.18	.37	.04	.04	4.7	16	0
APR. 09...	4	.15	.02	.01	.11	.17	.29	.02	.01	3.2	15	0
MAY 12...	11	.20	.09	.01	.04	.29	.34	.03	.00	5.2	19	0
JUNE 05...	24	.36	.02	.01	.09	.38	.48	.04	.02	8.6	26	0
JULY 09...	7	.23	.00	.01	.08	.23	.32	.05	.01	4.9	31	0
AUG. 07...	24	.36	.04	.01	.11	.40	.52	.03	.01	4.9	21	0
SEP. 10...	8	.39	.00	.01	.01	.39	.41	.01	.00	6.9	33	0

DATE	BICARBONATE (HCO3) (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	TOTAL NONFILTRABLE RESIDUE (MG/L)
OCT. 21...	--	--	--	--	--	--	--	--	--	--	--	--
NOV. 22...	--	--	--	--	--	--	--	--	--	--	--	--
MAR. 13...	20	.2	32	15	8.0	2.8	6.6	.5	33	13	70	10
APR. 09...	18	.5	29	14	7.5	2.4	5.3	.5	9.8	11	62	9
MAY 12...	23	1.5	25	6	5.5	2.7	5.9	.5	10	11	61	3
JUNE 05...	32	3.2	39	13	10	3.5	10	.6	15	12	89	4
JULY 09...	38	.6	43	12	11	3.8	11	.7	19	11	86	1
AUG. 07...	26	.7	41	19	11	3.2	7.8	.5	12	8.8	79	1
SEP. 10...	40	2.0	52	19	13	4.8	12	.6	19	10	95	6

PASSAIC RIVER BASIN

01387000 WANAQUE RIVER AT WANAQUE, N. J.

LOCATION.--Lat 41°02'33", long 74°17'36", Passaic County, at gaging station at bridge on State Route 511, 800 ft (244 m) downstream from Raymond Dam in Wanaque.

DRAINAGE AREA.--90.4 mi² (234 km²).

PERIOD OF RECORD.--Chemical analyses: Water years 1963-72 (partial-record station), October 1972 to September 1975. Water temperatures: October 1963 to September 1975.

EXTREMES.--1974-75:
Water temperatures: Maximum daily, 19.0°C on several days during July, August, and September; minimum daily, 2.0°C Feb. 10.
Period of record:
Water temperatures: Maximum daily, 24.5°C Aug. 19, 20, 1965; minimum daily, 1.0°C Jan. 31, 1966, Feb. 15, 1974.

REMARKS.--Once daily water temperature records provided by North Jersey District Water Supply Commission.

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	TEMPERATURE (DEG C)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	DISSOLVED OXYGEN (MG/L)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L)	IMMEDIATE COLIFORM (COL. PER 100 ML)	FECAL COLIFORM (EC BROTH) (MPN)	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)	TURBIDITY (JTU)
OCT.												
10...	1335	17	12.0	83	8.0	11.0	1.0	264	--	6	48	--
NOV.												
22...	1250	17	9.5	94	7.4	10.0	.7	12	--	30	6	--
MAR.												
13...	1315	60	3.0	94	8.1	13.0	1.2	--	8	--	--	2
APR.												
08...	1430	221	5.5	95	8.9	12.0	1.1	--	33	<1	--	2
MAY												
12...	1340	74	12.0	85	7.8	10.6	1.7	--	<2	4	--	2
JUNE												
05...	1405	18	--	95	6.9	--	1.3	--	33	40	--	1
JULY												
09...	1345	17	16.0	84	7.6	10.1	.9	--	49	22	--	1
AUG.												
07...	1345	27	17.1	90	7.6	9.4	1.1	--	170	32	--	1
SEP.												
10...	1215	18	14.5	106	6.1	9.4	1.3	--	--	4	--	1

DATE	COLOR (PLATINUM-COBALT UNITS)	TOTAL ORGANIC NITROGEN (N) (MG/L)	AMMONIA NITROGEN (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL ORTHO PHOSPHORUS (P) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)	ALKALINITY AS CACO3 (MG/L)	CARBONATE (CO3) (MG/L)
OCT.												
10...	--	--	--	--	--	--	--	--	--	--	--	--
NOV.												
22...	--	.11	.14	.00	.14	.25	.39	.02	.00	2.0	--	--
MAR.												
13...	5	.13	.04	.01	.18	.17	.36	.03	.03	3.5	16	0
APR.												
08...	3	.11	.01	.01	.43	.12	.56	.02	.00	5.3	21	--
MAY												
12...	4	.24	.01	.02	.01	.25	.28	.01	.00	6.2	13	0
JUNE												
05...	4	.26	.01	.01	.35	.27	.63	.01	.01	4.5	--	0
JULY												
09...	3	.12	.10	.01	.14	.22	.37	.01	.01	2.1	18	0
AUG.												
07...	1	.24	.02	.00	.13	.26	.39	.01	.01	3.4	15	0
SEP.												
10...	2	.17	.03	.01	.26	.20	.47	.01	.00	5.3	--	0

DATE	BICARBONATE (HCO3) (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	TOTAL NONFILTRABLE RESIDUE (MG/L)
OCT.												
10...	--	--	--	--	--	--	--	--	--	--	--	--
NOV.												
22...	--	--	--	--	--	--	--	--	--	--	--	--
MAR.												
13...	19	.2	31	15	7.6	2.8	4.7	.6	12	15	58	10
APR.												
08...	25	.1	32	12	8.7	2.6	5.0	.9	8.0	13	71	7
MAY												
12...	16	.4	27	14	7.1	2.2	4.5	.7	7.6	13	53	0
JUNE												
05...	--	--	33	--	8.8	2.7	4.8	.7	7.6	13	50	4
JULY												
09...	22	.9	28	10	7.5	2.3	4.6	.8	8.0	13	52	1
AUG.												
07...	18	.7	33	18	9.9	2.0	4.5	.6	5.9	12	63	5
SEP.												
10...	--	--	35	--	10	2.5	4.5	.6	5.2	11	58	2

01387000 WANAQUE RIVER AT WANAQUE, N. J.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
(ONCE DAILY MEASUREMENT BETWEEN 0800 AND 1000)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	18.0	13.0	---	---	---	---	4.5	8.5	---	17.5	18.5	---
2	17.5	---	7.5	4.0	---	---	5.0	8.5	13.5	18.5	---	18.0
3	17.5	---	7.0	4.0	3.0	3.0	4.5	---	13.5	19.0	---	18.0
4	17.0	13.0	7.0	---	3.0	3.0	4.5	---	14.0	---	19.0	18.0
5	---	---	7.0	---	3.0	2.5	---	9.0	13.5	---	18.5	18.0
6	---	12.0	5.5	4.0	3.0	2.5	---	9.0	14.0	---	18.5	---
7	16.5	13.0	---	4.0	3.0	3.0	4.5	9.0	---	16.5	19.0	---
8	16.0	13.0	---	4.0	---	---	4.5	9.5	---	16.5	18.0	18.0
9	16.0	---	6.0	4.0	---	---	4.5	10.0	14.5	16.5	---	19.0
10	16.0	---	6.0	4.0	2.0	3.0	5.0	---	14.0	17.0	---	19.0
11	16.0	12.0	6.0	---	2.5	3.0	5.5	---	14.5	16.5	18.5	19.0
12	---	12.0	6.0	---	---	3.0	---	10.0	14.0	---	18.0	19.0
13	---	12.0	6.0	4.0	2.5	3.5	---	10.0	13.5	---	18.0	---
14	---	12.0	---	4.0	2.5	3.0	6.0	11.0	---	16.5	18.0	---
15	15.0	12.0	---	3.5	---	---	5.5	11.0	---	16.5	18.0	18.0
16	15.5	---	5.0	3.5	---	---	5.0	10.5	14.0	17.0	---	17.0
17	---	---	6.0	3.0	---	3.0	6.0	---	15.0	16.5	---	17.0
18	---	11.0	5.5	---	2.5	3.0	6.0	---	15.0	17.0	18.5	17.0
19	---	11.0	6.0	---	3.0	3.5	6.0	11.5	15.0	---	18.0	17.0
20	---	11.0	5.0	3.5	3.0	3.5	5.0	12.0	15.5	---	18.0	---
21	---	11.0	---	3.0	3.0	3.5	6.5	12.0	---	17.0	18.0	---
22	---	10.0	---	3.0	---	---	7.0	12.5	---	17.0	18.5	17.0
23	---	---	5.0	3.0	---	---	7.0	12.0	15.0	17.0	---	17.5
24	---	---	5.0	3.0	3.0	4.5	6.5	---	15.5	18.0	---	17.5
25	13.0	10.0	---	---	3.0	4.5	7.0	---	16.0	18.0	17.5	17.5
26	---	9.0	4.5	---	2.5	4.5	---	---	16.0	---	17.5	17.0
27	---	8.0	4.0	3.0	3.0	4.0	---	---	16.0	---	18.0	---
28	---	---	---	3.0	3.0	---	8.5	12.0	---	18.0	13.0	---
29	12.5	---	---	3.0	---	---	8.5	13.5	---	18.0	13.0	16.5
30	12.5	---	4.5	3.0	---	---	8.5	13.5	17.0	18.5	---	16.0
31	13.0	---	4.5*	3.0	---	4.5	---	13.0	---	18.5	---	---
MONTH	---	---	---	---	---	---	6.0	---	---	---	---	---

01387500 RAMAPO RIVER NEAR MAHWAH, N. J.

LOCATION.--Lat 41°05'51", long 74°09'48", Bergen County, 350 ft (107 m) upstream from gaging station, at bridge on N.J. Route 17, 1.0 mi (1.6 km) west of Mahwah.

DRAINAGE AREA.--118 mi² (306 km²).

PERIOD OF RECORD.--Chemical analyses: Water years 1963-73 (partial-record station), October 1973 to September 1975. Sediment records: February 1964 to June 1965.

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	TEMPERATURE (DEG C)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	DISSOLVED OXYGEN (MG/L)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L)	IMMEDIATE COLIFORM (COL. PER 100 ML)	FECAL COLIFORM (EC BROTH) (MPN)	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)	TURBIDITY (JTU)
OCT. 18...	1300	223	11.5	210	7.9	11.4	2.7	300	--	144	86	--
NOV. 22...	1205	191	3.6	220	7.7	13.8	1.4	2	--	0	8	--
MAR. 13...	1115	264	4.9	212	7.8	13.0	.8	--	49	17	--	3
APR. 08...	1200	375	4.6	190	7.2	13.0	1.5	--	<2	3	--	3
MAY 12...	1450	246	15.3	199	8.3	11.6	1.7	--	<2	<1	--	4
JUNE 05...	1225	169	17.0	213	7.1	9.2	2.2	--	130	490	--	3
JULY 09...	1150	47	22.7	333	7.6	8.9	2.4	--	<2	310	--	3
AUG. 07...	1235	286	18.3	238	7.8	7.9	2.4	--	240	2750	--	15
SEP. 10...	1115	58	14.6	400	6.9	8.8	3.0	--	--	0	--	6

DATE	COLOR (PLATINUM-COBALT UNITS)	TOTAL ORGANIC NITROGEN (N) (MG/L)	AMMONIA NITROGEN (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL ORTHO PHOSPHORUS (P) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)	ALKALINITY AS CACO3 (MG/L)	CARBONATE (CO3) (MG/L)
OCT. 18...	--	--	--	--	--	--	--	--	--	--	--	--
NOV. 22...	--	.24	.48	.02	.47	.72	1.2	.11	.08	4.6	--	--
MAR. 13...	5	.24	.21	.01	.57	.45	1.0	.08	.08	6.5	43	0
APR. 08...	4	.16	.14	.01	.37	.30	.68	.05	.03	4.4	37	0
MAY 12...	7	.25	.24	.03	.31	.49	.83	.10	.06	7.8	37	0
JUNE 05...	6	.33	.25	.04	.52	.58	1.1	.12	.07	6.2	46	0
JULY 09...	2	.26	.41	.07	.93	.67	1.7	.24	.17	5.2	70	0
AUG. 07...	3	.38	.17	.03	.58	.55	1.2	.06	.06	5.9	65	0
SEP. 10...	2	.62	.22	.05	.60	.84	1.5	.17	.13	8.7	--	0

DATE	BICARBONATE (HCO3) (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	TOTAL NONFILTRABLE RESIDUE (MG/L)
OCT. 18...	--	--	--	--	--	--	--	--	--	--	--	--
NOV. 22...	--	--	--	--	--	--	--	--	--	--	--	--
MAR. 13...	53	1.3	71	27	20	5.0	16	.9	31	22	131	5
APR. 08...	45	4.5	58	22	16	4.5	13	.9	30	16	133	5
MAY 12...	45	.6	44	7	12	3.3	17	.9	24	20	106	2
JUNE 05...	56	7.1	65	19	18	4.8	14	1.0	26	15	113	12
JULY 09...	85	3.4	120	45	33	7.7	25	1.7	48	23	218	8
AUG. 07...	79	2.0	82	17	23	5.9	15	1.2	26	15	140	29
SEP. 10...	--	--	110	--	29	8.6	27	1.5	48	21	215	12

PASSAIC RIVER BASIN

01388500 POMPTON RIVER AT POMPTON PLAINS, N. J.

LOCATION.--Lat 40°58'09", long 74°16'56", Passaic County, 100 ft (30 m) downstream from gaging station, at Jackson Avenue Bridge, 900 ft (240 m) below confluence of Pequannock and Ramapo River, and 0.7 (1.1 km) east of Pompton Plains.

DRAINAGE AREA.--355 mi^2 (919 km^2).

REMARKS.--Miscellaneous storm sediment samples collected during water years 1971-75.

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	TEMPER-ATURE (DEG C)	INSTAN-TANEOUS DIS-CHARGE (CFS)	SUS-PENDED SEDI-MENT (MG/L)	SUS-PENDED SEDI-MENT DIS-CHARGE (T/DAY)
DEC. 16...	1200	4.9	362	8	7.8
APR. 03...	1400	9.0	1120	72	218

01389000 POMPTON RIVER AT TWO BRIDGES, N. J.

LOCATION.--40°53'52", long 74°16'22", Passaic County, at bridge on Two Bridges Road just upstream from mouth, and 0.3 mi (0.5 km) northeast of Two Bridges.

DRAINAGE AREA.--380 mi² (984 km²).

PERIOD OF RECORD.--Chemical analyses: June 1963 to March 1969, (partial-record station), July 1969 to September 1975. Water temperatures: October 1962 to September 1974.

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	DIS-SOLVED OXYGEN (MG/L)	BIO-CHEM-ICAL OXYGEN DEMAND 5 DAY (MG/L)	IMME-DIATE COLI-FORM (COL. PER 100 ML)	FECAL COLI-FORM (EC BROTH) (MPN)	FECAL COLI-FORM (COL. PER 100 ML)	STREP-TOCOCCI (COL-ONIES PER 100 ML)	TUR-BID-ITY (JTU)	COLOR (PLAT-INUM-COBALT UNITS)
OCT. 30...	1245	10.9	241	6.7	9.3	3.2	—	—	—	—	—	—
NOV. 21...	1135	7.2	200	7.6	11.2	2.5	3220	—	1050	410	—	—
MAR. 20...	1125	5.9	177	7.5	11.7	3.1	—	920	640	—	20	8
APR. 24...	1145	11.6	231	7.6	9.0	—	—	700	200	—	5	4
MAY 08...	1330	13.7	183	7.7	9.8	3.0	—	50	80	—	3	9
JUNE 11...	1215	18.3	203	7.3	5.8	3.5	—	130	—	—	3	11
JULY 23...	1200	24.5	126	7.1	8.4	3.7	—	110	800	—	10	6
AUG. 13...	1200	24.0	250	6.6	7.2	4.5	—	330	305	—	10	14
SEP. 11...	1230	18.5	276	—	7.4	2.5	—	—	420	—	3	1

DATE	TOTAL ORGANIC NITRO-GEN (N) (MG/L)	AMMONIA NITRO-GEN (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	TOTAL ORTHO PHOS-PHORUS (P) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	CAR-BONATE (CO3) (MG/L)	BICAR-BONATE (HCO3) (MG/L)
OCT. 30...	—	—	—	—	—	—	—	—	—	—	—	—
NOV. 21...	.14	.48	.03	.61	.62	1.3	.17	.10	5.6	—	—	—
MAR. 20...	.28	.12	.00	.31	.40	.71	.13	.02	9.0	24	0	29
APR. 24...	.43	.32	.03	.52	.75	1.3	.16	.07	5.6	46	0	56
MAY 08...	.37	.12	.03	.44	.49	.94	.10	.04	6.0	36	0	44
JUNE 11...	.30	.27	.08	.62	.57	1.3	.16	.08	3.9	44	—	54
JULY 23...	.52	.06	.02	.26	.58	.86	.10	.03	6.2	30	0	37
AUG. 13...	.55	.16	.07	.57	.71	1.4	.06	.05	9.0	—	0	—
SEP. 11...	.41	.27	.11	.74	.60	1.5	.13	.10	7.4	54	—	66

DATE	CARBON DIOXIDE (CO2) (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	TOTAL NON-FILT-RABLE RESIDUE (MG/L)
OCT. 30...	—	—	—	—	—	—	—	—	—	—	—
NOV. 21...	—	—	—	—	—	—	—	—	—	—	—
MAR. 20...	1.5	—	—	—	—	13	1.3	24	17	106	63
APR. 24...	2.3	66	20	18	5.0	17	1.0	25	22	139	15
MAY 08...	1.4	66	30	19	4.5	12	.9	18	19	118	20
JUNE 11...	4.3	71	26	20	5.0	14	1.5	20	18	124	18
JULY 23...	4.7	48	17	13	3.7	9.1	1.1	11	12	93	2
AUG. 13...	—	110	—	29	9.5	26	2.7	26	41	233	29
SEP. 11...	—	130	76	34	11	35	4.0	26	19	168	2

PASSAIC RIVER BASIN

01389110 PASSAIC RIVER AT RT. 46 AT SINGAC, N. J.

LOCATION.--Lat 40°53'32", long 74°15'58", Passaic County, at bridge on Rt. 46 at Singac, 0.6 mi (1.0 km) downstream of the confluence of the Passaic and Pompton Rivers.

DRAINAGE AREA.--745 mi² (1,930 km²).

PERIOD OF RECORD.--Chemical analyses: July 1974 to September 1975.

REMARKS.--Operated as part of the USGS-EPA paired station network.

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	DEPTH (FT)	INSTANTANEOUS DISCHARGE (CFS)	AIR TEMPERATURE (DEG C)	TEMPERATURE (DEG C)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	DISSOLVED OXYGEN (MG/L)	CHEMICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	IMMEDIATE COLIFORM (COL. PER 100 ML)
OCT.										
18...	0940	2.0	E1220	5.3	11.9	255	7.4	5.0	34	3000
NOV.										
01...	1045	2.0	F490	27.9	14.3	353	7.2	4.0	25	2740
15...	1020	2.5	E1040	3.2	9.2	205	7.6	6.0	20	9300
26...	1150	1.0	F532	.1	5.0	405	7.5	8.2	23	1200
DEC.										
12...	1210	2.0	E2310	4.6	3.3	182	8.4	9.2	27	1040
23...	1155	1.0	E1640	6.1	3.2	290	7.1	8.4	22	1300
JAN.										
14...	1005	--	E2630	--	3.3	223	7.4	9.7	17	1000
30...	1210	--	E2360	3.1	4.6	251	5.9	--	19	300
FEB.										
18...	1115	--	E1190	4.0	3.1	498	8.1	6.3	16	50
27...	1040	--	E6420	4.2	4.4	109	7.3	10.0	16	340
MAR.										
10...	1015	--	F917	-2.0	2.6	311	7.6	10.6	16	300
27...	1020	--	E3350	3.9	--	202	6.5	9.6	18	--
APR.										
08...	1115	--	E2020	--	5.4	209	7.5	11.0	15	--
24...	1000	--	F719	--	1.4	375	7.1	6.6	22	--
MAY										
08...	0935	--	E1950	13.9	15.2	206	6.9	7.0	27	--
20...	1015	--	E1720	26.5	20.6	220	6.9	3.0	30	--
JUNE										
05...	1030	--	E1160	18.0	20.0	247	7.1	4.1	32	--
18...	1015	--	E1070	25.1	22.7	104	6.9	3.4	30	--
JULY										
02...	1030	--	F502	--	22.2	263	7.4	4.6	22	--
16...	1200	--	E4820	32.5	24.0	--	6.8	5.6	34	--
31...	1300	--	E2510	--	26.0	174	6.8	3.4	33	--
AUG.										
14...	1200	--	E444	27.5	25.1	330	6.8	4.2	18	--
28...	1030	--	E1250	22.2	23.0	226	6.7	6.2	42	--
SEP.										
10...	0930	--	E274	12.0	18.9	392	6.5	4.0	15	--
30...	1015	--	E7490	16.7	16.6	120	6.3	5.0	19	--

01389110 PASSAIC RIVER AT RT. 46 AT SINGAC, N. J.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	FECAL COLI-FORM (COL. PER 100 ML)	STREP-TOCOCCI (COL-ONIES PER 100 ML)	CHLORO-PHYLL A (UG/L)	CHLORO-PHYLL B (UG/L)	CHLORO-PHYLL C (UG/L)	TUR-BID-ITY (JTU)	OIL AND GREASE (MG/L)	TOTAL ORGANIC NITRO-GEN (N) (MG/L)	AMMONIA NITRO-GEN (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)
OCT.										
10...	4690	1304	.000	.000	.000	30	--	.70	1.1	1.8
NOV.										
01...	320	160	4.70	1.10	1.30	9	0	.10	2.0	2.1
15...	2320	660	3.60	.000	.900	18	0	.30	1.4	1.7
26...	140	20	1.30	1.70	3.30	5	0	.80	3.1	2.9
DEC.										
12...	100	130	2.30	.900	2.30	10	1	.60	.15	.01
23...	530	20	.000	.900	.000	7	1	.30	.02	1.2
JAN.										
14...	240	310	2.60	.600	2.60	10	0	.00	.60	.60
30...	20	--	3.40	1.60	4.40	9	0	.20	.71	.91
FEB.										
10...	300	12	.200	.400	.000	6	0	--	--	--
27...	240	94	3.50	26.0	140	20	0	.13	.31	.44
MAR.										
10...	40	320	1.10	2.00	3.30	6	0	.40	1.5	1.9
27...	30	--	18.0	37.0	120	6	0	.35	.30	.65
APR.										
08...	20	10	.000	2.20	.000	5	0	.46	.55	.99
24...	120	--	2.90	6.90	6.90	10	1	.10	2.3	2.9
MAY										
08...	140	--	13.0	1.80	16.0	13	0	1.1	.47	1.6
20...	--	--	--	--	--	12	0	.61	.09	1.5
JUNE										
05...	2700	--	5.30	.000	.000	20	0	1.0	1.0	2.0
18...	521	--	2.50	.000	.000	9	0	.50	.52	1.1
JULY										
02...	400	--	4.80	.000	.000	9	0	.35	.05	1.2
16...	630	--	.000	.000	.000	11	0	.53	.21	.74
31...	120	--	.000	.000	.000	4	0	.77	.12	.09
AUG.										
14...	480	--	7.50	.000	--	3	0	.60	1.3	1.9
28...	700	--	.000	.000	.000	16	--	.94	.36	1.3
SEP.										
10...	140	--	5.80	.000	.000	5	0	1.6	1.7	3.3
30...	130	--	.000	.000	--	5	17	.46	.03	.49

DATE	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	TOTAL ORTHO PHOS-PHORUS (P) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	CAR-BONATE (CO3) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	HARD-NESS (CA,MG) (MG/L)
OCT.										
10...	1.1	2.9	.56	--	18	--	--	--	--	--
NOV.										
01...	1.1	3.2	.69	--	7.0	--	--	--	--	--
15...	1.1	2.8	.64	--	15	--	--	--	--	--
26...	1.5	4.4	1.1	--	8.2	--	--	--	--	--
DEC.										
12...	.34	1.2	.07	--	12	--	--	--	--	--
23...	.71	1.9	.31	--	23	34	0	41	5.2	--
JAN.										
14...	.61	1.3	.23	--	8.6	--	--	--	--	--
30...	.70	1.6	.24	--	9.1	--	--	--	--	--
FEB.										
10...	--	--	.60	--	8.8	59	0	72	.9	--
27...	.53	.97	.14	--	7.5	--	--	--	--	--
MAR.										
10...	.87	2.8	.46	--	8.4	--	--	--	--	--
27...	.50	1.2	.16	--	6.5	--	--	--	--	--
APR.										
08...	.52	1.5	.25	--	5.8	--	--	--	--	--
24...	1.5	4.4	.75	--	5.6	--	--	--	--	--
MAY										
08...	.64	2.2	.32	--	11	36	0	44	8.9	--
20...	.60	2.2	.40	--	14	--	--	--	--	--
JUNE										
05...	.77	2.8	.61	--	20	--	--	--	--	--
18...	.60	1.7	.43	--	9.9	--	--	--	--	--
JULY										
02...	1.2	2.4	.38	--	6.1	--	--	--	--	--
16...	.33	1.1	.23	--	17	--	--	--	--	--
31...	.33	1.2	.16	.13	8.7	39	0	47	12	--
AUG.										
14...	1.3	3.2	.28	.27	6.7	89	0	108	27	--
28...	.05	2.2	.26	.20	19	56	0	61	19	--
SEP.										
10...	1.0	5.1	.46	.41	7.5	103	0	126	64	240
30...	.40	.09	.12	.07	15	21	0	25	20	--

01389110 PASSAIC RIVER AT RT. 46 AT SINGAC, N. J.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	NON-CAR-BONATE HARD-NESS (MG/L)	TOTAL CAL-CIUM (CA) (MG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	TOTAL MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	TOTAL SODIUM (NA) (MG/L)	TOTAL PO-TAS-SIUM (K) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)
OCT.										
18...	--	--	--	--	--	--	--	--	--	158
NOV.										
01...	--	--	--	--	--	--	--	--	--	213
15...	--	--	--	--	--	--	--	--	--	174
26...	--	--	--	--	--	--	--	--	--	238
DEC.										
12...	--	--	--	--	--	--	--	--	--	114
23...	--	14	--	5.6	--	13	1.4	19	24	138
JAN.										
14...	--	--	--	--	--	--	--	--	--	132
30...	--	--	--	--	--	--	--	--	--	142
FEB.										
19...	--	25	--	7.9	--	51	2.1	79	31	247
27...	--	--	--	--	--	--	--	--	--	124
MAR.										
10...	--	--	--	--	--	--	--	--	--	181
27...	--	--	--	--	--	--	--	--	--	134
APR.										
08...	--	--	--	--	--	--	--	--	--	176
24...	--	--	--	--	--	--	--	--	--	273
MAY										
08...	--	15	--	4.7	--	14	1.5	22	22	137
20...	--	--	--	--	--	--	--	--	--	146
JUNE										
05...	--	--	--	--	--	--	--	--	--	174
18...	--	--	--	--	--	--	--	--	--	123
JULY										
02...	--	--	--	--	--	--	--	--	--	103
16...	--	--	--	--	--	--	--	--	--	99
31...	--	--	--	--	--	--	--	13	13	112
AUG.										
14...	--	--	--	--	--	--	--	31	29	191
28...	--	17	--	6.8	--	14	2.3	18	23	146
SEP.										
10...	140	--	34	--	38	--	--	38	33	218
30...	--	--	--	--	--	--	--	8.4	11	71

DATE	TOTAL NON-FILT-RABLE RESIDUE (MG/L)	TOTAL IRON (FE) (UG/L)	TOTAL ARSENIC (AS) (UG/L)	TOTAL CAD-MIUM (CD) (UG/L)	TOTAL CHRO-MIUM (CR) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)	TOTAL ZINC (ZN) (UG/L)
OCT.									
18...	47	2400	2	0	10	20	23	1.2	30
NOV.									
01...	25	1200	10	1	10	10	8	<.5	40
15...	17	1400	2	1	<10	10	8	<.5	20
26...	10	840	1	0	0	10	13	<.5	10
DEC.									
12...	20	830	1	1	<10	10	7	<.5	20
23...	9	1200	1	0	10	10	6	<.5	20
JAN.									
14...	13	600	1	1	10	50	57	<.5	10
30...	11	740	0	1	0	20	35	.7	20
FEB.									
19...	13	740	0	0	0	10	12	.6	30
27...	8	690	1	0	10	10	8	<.5	20
MAR.									
10...	13	670	1	1	0	10	3	<.5	20
27...	10	390	1	0	<10	10	5	<.5	30
APR.									
08...	16	770	0	0	0	10	10	<.5	30
24...	39	1900	4	4	--	20	28	<.5	70
MAY									
08...	37	1200	1	1	<10	10	13	<.5	20
20...	44	2400	2	2	20	20	20	<.5	20
JUNE									
05...	52	2400	1	0	10	20	32	.5	30
18...	37	2600	1	1	10	70	24	.5	40
JULY									
02...	35	1300	2	1	10	20	14	<.5	30
16...	10	1100	2	0	<10	90	22	<.5	50
31...	1	1100	2	0	<10	50	50	<.5	20
AUG.									
14...	20	1100	0	0	<10	10	10	<.5	10
28...	59	3000	2	2	10	30	30	<.5	90
SEP.									
10...	26	1400	2	0	0	10	16	<.5	20
30...	7	570	2	1	<10	10	19	<.5	20

01389500 PASSAIC RIVER AT LITTLE FALLS, N. J.

LOCATION.--Lat 40°53'05", long 74°13'35", Passaic County, 0.5 mi (0.8 km) upstream from gaging station at Passaic Valley Water Commission intake in Little Falls.

DRAINAGE AREA.--762 mi² (1974 km²).

PERIOD OF RECORD.--Chemical analyses: November 1962 to September 1965, water years 1966-70 (partial-record station), October 1970 to September 1975.
Water temperatures: October 1962 to September 1975.
Sediment records: August 1963 to July 1965.

EXTREMES.--1974-75:
Dissolved oxygen: Maximum daily, 12.6 mg/l Feb. 5; minimum daily, 3.2 mg/l Aug. 5.
Water temperatures: Maximum daily, 27.0°C Aug. 4; minimum daily, 0.5°C Jan. 18, 19.
Period of record:
Dissolved oxygen (1970-75): Maximum daily, 14.4 mg/l Jan. 7, 1973; minimum daily, 2.0 mg/l Sept. 2, 1972.
Water temperatures: Maximum daily, 28.0°C July 28, 1963 and July 19, 1968; minimum daily, freezing point on many days during winter months.

REMARKS.--Once daily dissolved-oxygen and water-temperature records provided by the Passaic Valley Water Commission.

DISSOLVED OXYGEN (DO), IN MILLIGRAMS PER LITER, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
(ONCE DAILY MEASUREMENTS BETWEEN 0800 AND '000)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.9	4.0	10.2	11.0	12.1	11.2	11.0	7.8	4.5	4.5	4.2	5.3
2	7.8	5.5	10.7	11.0	12.2	11.0	10.5	7.5	4.7	4.0	4.1	5.4
3	6.7	5.3	11.0	11.0	12.4	11.5	10.8	8.2	4.6	4.1	3.9	5.8
4	7.2	4.9	11.0	11.0	12.5	11.5	11.0	8.1	4.6	4.1	3.6	5.6
5	7.7	4.7	11.0	10.8	12.6	12.1	11.7	7.5	4.5	4.0	3.2	5.4
6	7.5	4.8	10.5	10.6	12.1	11.7	11.7	8.2	5.9	4.6	4.0	5.1
7	7.0	5.4	10.3	10.9	11.8	11.5	11.5	8.8	6.5	3.6	5.0	4.9
8	6.8	5.7	9.8	10.8	11.7	10.5	11.4	8.8	6.3	3.5	5.5	5.0
9	6.7	6.2	10.6	11.0	11.5	10.9	11.0	8.8	6.2	4.1	5.9	4.8
10	6.6	6.4	10.8	11.3	12.0	11.5	10.6	7.5	6.0	3.7	5.7	5.0
11	6.6	6.7	10.8	11.3	12.3	11.5	10.0	7.2	5.8	3.5	5.2	5.2
12	6.5	7.0	10.6	10.5	12.0	11.3	9.7	7.0	5.7	4.1	5.0	4.7
13	6.4	7.0	10.5	10.3	11.9	10.7	9.7	6.7	6.7	4.1	5.1	5.2
14	6.2	7.7	10.1	11.0	11.9	10.5	9.8	6.9	6.5	6.5	4.2	5.8
15	5.8	7.5	10.0	11.0	12.0	11.1	10.0	7.2	5.9	7.1	4.4	5.9
16	6.3	8.3	10.0	11.9	11.8	11.4	9.5	6.9	5.7	6.0	4.2	5.5
17	7.5	8.7	11.0	11.5	11.6	11.2	9.5	7.1	5.5	5.2	3.7	5.5
18	7.1	9.2	11.0	12.4	11.5	11.3	8.7	6.7	5.0	4.8	4.0	5.6
19	6.8	9.2	10.9	12.0	11.1	10.7	8.5	6.5	4.9	5.0	4.3	5.3
20	7.2	9.2	10.9	12.0	11.5	10.2	8.2	6.0	4.3	4.5	4.3	4.8
21	7.0	8.4	10.5	12.4	11.3	11.0	8.6	5.2	4.3	6.0	4.7	5.0
22	8.3	8.6	10.2	12.5	11.3	11.4	9.0	4.7	5.0	5.0	4.2	5.0
23	8.4	9.7	10.3	12.2	10.8	10.7	8.8	4.6	4.7	4.8	4.5	6.4
24	8.3	9.7	10.2	12.0	11.0	10.5	8.5	4.6	4.3	4.5	4.6	7.2
25	8.0	9.9	10.3	11.5	11.0	10.1	7.5	4.5	3.9	5.7	5.3	8.2
26	7.5	10.0	11.3	11.3	11.5	10.0	7.6	4.6	3.5	5.7	5.4	8.2
27	7.6	10.0	10.7	12.0	11.5	10.7	8.1	5.0	3.5	5.4	5.4	7.5
28	7.6	10.3	11.2	11.8	11.2	11.1	8.3	5.0	3.8	5.0	5.1	7.2
29	7.5	10.3	11.0	11.5	---	10.8	8.0	4.5	3.6	4.8	4.9	6.7
30	7.2	10.3	10.7	11.5	---	10.8	8.0	4.7	4.0	5.8	4.9	6.4
31	6.7	---	10.7	11.7	---	11.0	---	4.6	---	4.5	5.2	---
MONTH	7.1	7.8	10.6	11.4	11.7	11.0	9.5	6.4	5.0	4.7	4.6	5.8

01389500 PASSAIC RIVER AT LITTLE FALLS, N. J.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
(ONCE DAILY MEASUREMENT BETWEEN 0800 AND 1000)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	15.5	11.5	4.5	2.0	4.0	4.5	6.0	13.0	22.0	23.0	24.0	20.0
2	15.0	14.0	4.5	3.5	3.5	5.0	8.0	13.0	21.0	23.0	25.5	19.5
3	13.0	14.5	5.0	3.5	3.0	5.0	8.5	12.0	21.5	23.5	26.5	19.5
4	11.5	14.0	5.0	4.0	2.0	4.0	7.0	13.5	20.5	23.5	27.0	18.5
5	11.0	13.5	4.0	5.0	3.0	4.0	5.0	13.5	21.5	23.5	25.5	19.5
6	11.0	13.5	3.5	4.0	3.0	5.0	5.0	14.0	19.5	24.0	25.5	20.0
7	11.0	13.0	3.5	4.0	4.0	5.5	5.5	14.0	18.5	23.5	23.0	19.5
8	13.0	12.0	4.5	4.0	3.5	6.5	5.5	15.0	19.0	23.5	20.5	20.0
9	13.0	11.5	8.5	6.5	3.5	5.5	6.0	16.0	18.5	24.0	20.0	20.5
10	13.0	10.5	6.5	5.0	1.5	3.5	6.5	16.5	18.5	23.5	21.5	19.5
11	13.0	9.5	5.0	5.0	3.0	4.0	8.0	16.5	19.0	23.5	23.0	18.5
12	14.0	9.5	5.5	5.0	3.0	3.5	9.0	16.5	19.5	24.0	23.5	19.5
13	14.5	9.0	4.5	5.5	1.5	5.5	9.0	18.5	19.0	23.0	24.0	18.5
14	13.5	10.5	4.5	5.0	2.0	6.0	9.5	18.0	19.5	22.0	24.5	18.0
15	13.5	10.0	5.0	3.0	1.5	5.0	10.0	18.5	20.5	21.5	24.5	16.0
16	13.5	8.0	5.0	4.0	2.0	5.0	9.0	19.0	20.5	22.0	24.5	16.0
17	13.5	6.5	5.0	1.5	2.0	6.0	11.0	19.0	20.5	23.5	23.5	17.0
18	13.0	6.5	5.0	0.5	4.5	6.0	11.5	18.5	21.5	23.5	22.0	17.0
19	9.5	8.0	4.5	0.5	5.0	6.0	13.0	18.5	21.5	24.0	21.5	17.0
20	9.0	8.0	4.5	1.5	5.0	8.0	12.0	20.0	22.0	24.5	22.0	18.0
21	8.0	8.0	4.5	1.0	5.0	6.0	11.5	21.0	23.5	24.0	23.0	19.5
22	7.0	6.5	4.5	1.5	5.0	6.5	10.5	21.5	23.5	24.5	23.0	19.0
23	7.0	6.5	4.0	2.0	5.0	6.5	11.5	22.0	23.0	24.0	23.0	18.5
24	8.5	6.5	4.0	2.0	6.0	7.0	11.5	23.0	24.0	24.5	23.0	18.0
25	8.5	6.5	5.0	5.0	4.0	7.0	14.0	22.0	24.0	24.0	21.5	15.5
26	9.0	5.0	4.0	5.0	6.0	7.0	13.5	22.0	24.0	23.5	22.0	16.0
27	9.0	5.0	3.5	4.0	5.0	5.5	13.0	20.5	23.0	22.0	23.0	16.5
28	8.5	3.5	1.5	4.0	4.0	4.5	13.0	20.5	23.0	23.0	22.0	16.5
29	9.0	4.0	1.5	4.5	---	6.5	13.0	21.5	23.0	23.0	21.5	17.0
30	10.5	4.0	2.0	4.5	---	8.0	11.5	21.5	23.0	23.5	21.5	17.0
31	11.0	---	4.5	4.5	---	6.0	---	21.5	---	24.0	20.5	---
MONTH	11.0	9.0	4.5	3.5	3.5	5.5	9.5	18.0	21.0	23.5	23.0	18.0

01389880 PASSAIC RIVER AT RT. 46 AT ELMWOOD PARK, N. J.

LOCATION.--Lat 40°53'37", long 74°07'46", Passaic County, at bridge on Rt. 46, at Elmwood Park, 0.8 mi (1.3 km) upstream of Dundee Dam.

DRAINAGE AREA.--803 mi² (2,080 km²).

PERIOD OF RECORD.--Chemical analyses: July 1974 to September 1975.

REMARKS.--Operated as part of the USGS-EPA paired station network.

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	DEPTH (FT)	INSTANTANEOUS DISCHARGE (CFS)	AIR TEMPERATURE (DEG C)	TEMPERATURE (DEG C)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	DISSOLVED OXYGEN (MG/L)	CHEMICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	IMMEDIATE COLIFORM (COL. PER 100 ML)
OCT.										
10...	1045	3.0	E1240	7.4	11.0	275	7.5	11.2	26	8900
NOV.										
01...	1145	3.0	E460	23.0	13.0	367	7.4	8.2	27	6050
15...	1210	1.5	E1060	4.2	9.3	320	7.7	10.6	26	10450
26...	1245	1.5	E496	.4	4.0	340	7.7	--	20	4000
DEC.										
12...	1310	2.0	E2320	8.6	3.9	182	8.3	14.0	24	3850
23...	1310	1.9	E1650	7.6	3.6	214	7.2	--	20	1700
JAN.										
14...	1205	--	E2000	--	3.0	293	7.3	13.3	19	7950
30...	1335	--	E2450	3.1	3.4	237	7.4	7.1	15	170
FEB.										
10...	1315	--	E1200	6.9	3.0	420	8.0	7.1	18	3200
27...	1300	--	E4520	9.4	4.5	150	7.4	14.0	20	6650
MAR.										
10...	1130	--	E922	-2.0	3.4	264	7.5	12.4	13	5200
27...	1130	--	E1390	2.7	--	190	7.3	13.6	19	--
APR.										
08...	0930	--	E2060	--	5.1	202	7.8	13.0	15	400
24...	1200	--	E824	--	1.3	328	7.2	9.0	30	--
MAY										
08...	1100	--	E1960	16.7	15.0	219	7.3	10.0	27	--
20...	1220	--	E1710	20.0	21.0	205	7.1	8.4	16	--
JUNE										
05...	1245	--	E1120	19.2	20.2	239	7.0	6.4	27	--
18...	1250	--	E1060	26.7	22.6	280	7.4	8.2	30	--
JULY										
02...	1230	--	E494	--	22.5	275	7.4	4.9	19	--
16...	1400	--	E4990	32.5	26.5	--	7.1	10.4	41	--
31...	1100	--	E2550	22.0	25.5	181	7.1	9.2	38	--
AUG.										
14...	1345	--	E432	27.4	25.3	326	6.6	7.8	29	--
28...	1200	--	E1240	30.0	23.5	245	6.6	7.0	27	--
SEP.										
10...	1130	--	E249	16.9	19.8	412	6.4	8.0	22	--
30...	1215	--	E7440	19.4	16.8	136	6.6	10.6	20	--

01389880 PASSAIC RIVER AT RT. 46 AT ELMWOOD PARK, N. J.--Continued

WATER QUALITY DATA. WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	FECAL COLI-FORM (COL. PER 100 ML)	STREP-TOCOCCI (COL-ONIES PER 100 ML)	CHLORO-PHYLL A (UG/L)	CHLORO-PHYLL B (UG/L)	CHLORO-PHYLL C (UG/L)	TUR-BID-ITY (JTU)	OIL AND GREASE (MG/L)	TOTAL ORGANIC NITRO-GEN (N) (MG/L)	AMMONIA NITRO-GEN (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)
OCT.										
10...	2070	1356	9.50	2.50	1.80	20	--	.27	.93	1.2
NOV.										
01...	620	260	13.0	1.10	5.40	9	1	.10	1.7	1.8
15...	900	1000	4.80	.500	2.90	9	0	.20	1.0	1.2
26...	320	160	2.50	2.00	5.50	5	0	.00	1.6	1.6
DEC.										
12...	210	230	5.10	4.50	12.0	10	--	.51	.35	.86
23...	620	40	.900	3.60	5.60	6	1	.17	.82	.99
JAN.										
14...	700	1100	3.60	7.60	14.0	10	1	.22	.51	.73
30...	240	115	3.40	1.60	4.40	8	0	.33	.55	.88
FEB.										
10...	60	800	--	--	--	9	1	--	--	--
27...	136	180	7.00	7.00	40.0	20	0	.44	.24	.68
MAR.										
10...	1015	650	1.40	3.20	3.00	5	1	.25	.95	1.2
27...	210	--	13.0	29.0	93.0	7	0	.34	.24	.58
APR.										
08...	400	<20	3.00	8.20	15.0	7	0	.15	.49	.64
24...	6350	--	13.0	30.0	17.0	45	0	.80	1.1	1.9
MAY										
08...	400	--	9.10	.000	.000	11	0	.96	.34	1.3
29...	--	--	--	--	--	5	0	.50	.50	1.0
JUNE										
05...	10500	--	40.0	.000	.000	25	0	.95	.55	1.5
18...	2797	--	3.10	.000	.000	6	0	.64	.29	.93
JULY										
02...	4100	--	6.60	.000	.000	6	0	.17	.51	.68
16...	3330	--	.000	.000	.000	14	1	.58	.19	.77
31...	2220	--	1.60	.000	.000	7	1	.74	.12	.86
AUG.										
14...	8900	--	53.0	.000	--	3	0	1.2	.14	1.3
28...	--	--	6.20	.000	.000	11	--	.67	.25	.92
SEP.										
10...	220	--	22.0	.000	.000	6	0	.80	.50	1.3
30...	2800	--	.000	.000	--	8	0	.47	.07	.54

DATE	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	TOTAL ORTHO PHOS-PHORUS (P) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	CAR-BONATE (CO3) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	HARD-NESS (CA,MG) (MG/L)
OCT.										
10...	1.3	2.5	.60	--	11	--	--	--	--	--
NOV.										
01...	1.5	3.3	.77	--	19	--	--	--	--	--
15...	1.4	2.6	.60	--	12	--	--	--	--	--
26...	1.3	2.9	--	--	7.1	--	--	--	--	--
DEC.										
12...	.81	1.7	.25	--	12	--	--	--	--	--
23...	.76	1.8	.20	--	7.9	33	0	40	4.0	--
JAN.										
14...	.65	1.4	.20	--	11	--	--	--	--	--
30...	.70	1.6	.30	--	5.5	--	--	--	--	--
FEB.										
10...	--	--	.49	--	5.6	53	0	65	1.0	--
27...	.48	1.2	.25	--	8.8	--	--	--	--	--
MAR.										
10...	.86	2.1	.36	--	6.2	--	--	--	--	--
27...	.50	1.1	.17	--	5.0	--	--	--	--	--
APR.										
08...	.58	1.2	.23	--	5.8	--	--	--	--	--
24...	1.4	3.3	1.1	--	6.6	--	--	--	--	--
MAY										
08...	.76	2.1	.38	--	9.6	39	0	47	3.0	--
29...	.01	1.0	.37	--	10	--	--	--	--	--
JUNE										
05...	1.1	2.6	.67	--	14	--	--	--	--	--
18...	.81	1.7	.42	--	8.6	--	--	--	--	--
JULY										
02...	1.9	2.6	.42	--	7.5	--	--	--	--	--
16...	.45	1.2	.40	--	11	--	--	--	--	--
31...	.44	1.3	.16	.11	11	39	0	47	6.0	--
AUG.										
14...	1.6	2.9	.27	.25	7.3	75	0	92	37	--
28...	1.2	2.1	.32	.21	16	41	0	50	20	--
SEP.										
10...	2.6	3.9	.43	.36	6.2	77	0	94	60	270
30...	.46	1.0	.19	.08	13	23	0	28	11	--

01389880 PASSAIC RIVER AT RT. 46 AT ELMWOOD PARK, N. J.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	NON-CARBONATE HARDNESS (MG/L)	TOTAL CALCIUM (CA) (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	TOTAL MAGNESIUM (MG) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	TOTAL SODIUM (NA) (MG/L)	TOTAL POTASSIUM (K) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)
OCT.										
10...	--	--	--	--	--	--	--	--	--	169
NOV.										
01...	--	--	--	--	--	--	--	--	--	214
15...	--	--	--	--	--	--	--	--	--	192
26...	--	--	--	--	--	--	--	--	--	201
DEC.										
12...	--	--	--	--	--	--	--	--	--	111
23...	--	14	--	5.4	--	13	1.2	19	24	132
JAN.										
14...	--	--	--	--	--	--	--	--	--	159
30...	--	--	--	--	--	--	--	--	--	136
FEB.										
18...	--	23	--	6.8	--	42	1.7	68	29	221
27...	--	--	--	--	--	--	--	--	--	124
MAR.										
10...	--	--	--	--	--	--	--	--	--	151
27...	--	--	--	--	--	--	--	--	--	112
APR.										
08...	--	--	--	--	--	--	--	--	--	122
24...	--	--	--	--	--	--	--	--	--	314
MAY										
08...	--	18	--	5.6	--	13	1.1	23	22	139
20...	--	--	--	--	--	--	--	--	--	134
JUNE										
05...	--	--	--	--	--	--	--	--	--	142
18...	--	--	--	--	--	--	--	--	--	131
JULY										
02...	--	--	--	--	--	--	--	--	--	174
16...	--	--	--	--	--	--	--	--	--	118
31...	--	--	--	--	--	--	--	13	14	111
AUG.										
14...	--	--	--	--	--	--	--	29	28	185
28...	--	19	--	6.9	--	15	2.3	20	23	152
SEP.										
10...	196	--	34	--	44	--	--	43	37	241
30...	--	--	--	--	--	--	--	10	12	89

DATE	TOTAL NON-FILTRABLE RESIDUE (MG/L)	TOTAL IRON (FE) (UG/L)	TOTAL ARSENIC (AS) (UG/L)	TOTAL CADMIUM (CD) (UG/L)	TOTAL CHROMIUM (CR) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)	TOTAL ZINC (ZN) (UG/L)
OCT.									
10...	38	1700	2	0	10	20	25	<.5	30
NOV.									
01...	19	990	2	0	<10	20	17	<.5	30
15...	21	1100	1	1	<10	10	14	<.5	20
26...	9	670	2	0	10	10	10	<.5	10
DEC.									
12...	24	1000	0	1	<10	20	15	<.5	40
23...	2	1500	1	0	10	10	7	<.5	40
JAN.									
14...	27	1000	1	1	0	20	25	<.5	0
30...	10	640	0	1	0	80	43	.6	70
FEB.									
18...	14	900	0	1	0	10	38	<.5	40
27...	33	1300	1	0	10	30	23	2.4	30
MAR.									
10...	15	520	1	0	<10	10	5	<.5	20
27...	16	590	2	1	0	10	15	<.5	20
APR.									
08...	14	620	1	0	0	20	24	<.5	40
24...	216	4000	1	3	10	20	70	<.5	80
MAY									
08...	36	1200	1	1	<10	10	27	<.5	30
20...	1	1300	1	1	10	40	20	<.5	20
JUNE									
05...	28	1600	3	0	10	20	30	<.5	40
18...	32	1500	2	1	20	30	21	.6	30
JULY									
02...	11	690	1	0	<10	20	11	<.5	20
16...	79	2200	2	0	<10	60	39	<.5	60
31...	2	1400	2	0	<10	80	100	<.5	40
AUG.									
14...	34	560	1	0	<10	30	13	<.5	40
28...	26	1300	2	0	<10	10	40	<.5	30
SEP.									
10...	22	920	2	2	20	120	80	<.5	100
30...	20	810	1	0	0	10	17	<.5	20

01391500 SADDLE RIVER AT LODI, N. J.

LOCATION.--Lat 40°53'25", long 74°04'51", Bergen County, 560 ft (171 m) downstream from gaging station, at Outwater Lane bridge in Lodi, and 3.1 mi (5.0 km) upstream from mouth.

DRAINAGE AREA.--54.6 mi² (141 km²).

PERIOD OF RECORD.--Chemical analyses: August 1962 to September 1972 (partial-record station), October 1972 to September 1975.

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	INSTANTANEOUS DIS-CHARGE (CFS)	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	DIS-SOLVED OXYGEN (MG/L)	BIO-CHEM-ICAL OXYGEN DEMAND 5 DAY (MG/L)	IMME-DIATE COLI-FORM (COL. PER 100 ML)	FECAL COLI-FORM (EC BROTH) (MPN)	FECAL COLI-FORM (COL. PER 100 ML)	STREP-TOCOCCI (COL-ONIES PER 100 ML)	TUR-BID-ITY (JTU)
OCT. 30...	1115	30	13.5	580	7.2	6.2	7.6	1900	--	460	200	--
NOV. 21...	1040	76	9.4	460	7.5	7.7	8.8	8400	--	910	2100	--
MAR. 20...	1000	840	8.4	230	7.4	10.6	5.1	--	1600	--	--	70
APR. 24...	1010	169	11.8	324	7.6	8.4	--	--	>2400	1560	--	10
MAY 08...	1015	103	12.7	408	7.5	8.2	6.9	--	790	480	--	4
JUNE 11...	1415	74	19.8	474	8.1	7.0	6.4	--	330	--	--	5
JULY 23...	1100	93	24.0	486	7.3	7.4	4.8	--	170	2450	--	5
AUG. 13...	1100	59	24.0	496	6.7	7.3	7.2	--	790	550	--	2
SEP. 11...	1100	40	19.0	482	--	6.4	5.4	--	--	870	--	3

DATE	COLOR (PLAT-INUM-COBALT UNITS)	TOTAL ORGANIC NITRO-GEN (N) (MG/L)	AMMONIA NITRO-GEN (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	TOTAL ORTHO PHOS-PHORUS (P) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	CAR-BONATE (CO3) (MG/L)
OCT. 30...	--	--	--	--	--	--	--	--	--	--	--	--
NOV. 21...	--	.10	3.7	.25	2.3	3.8	6.3	2.6	1.4	15	--	--
MAR. 20...	30	.26	.27	.01	.69	.53	1.2	.32	.05	11	36	0
APR. 24...	10	.58	.82	.18	1.5	1.4	3.1	.67	.42	--	69	0
MAY 08...	16	.67	.73	.21	1.9	1.4	3.5	.69	.55	6.4	94	0
JUNE 11...	12	.66	.64	.28	2.0	1.3	4.4	.99	.74	7.0	119	--
JULY 23...	7	.80	.41	.25	2.8	.99	4.0	.70	.50	5.1	105	0
AUG. 13...	7	.51	.47	.44	3.1	.98	4.5	1.0	.95	5.3	--	0
SEP. 11...	1	.42	.20	.09	1.3	.62	2.0	.13	.09	7.0	--	--

DATE	BICAR-BONATE (HCO3) (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	TOTAL NON-FILT-RABLE RESIDUE (MG/L)
OCT. 30...	--	--	--	--	--	--	--	--	--	--	--	--
NOV. 21...	--	--	--	--	--	--	--	--	--	--	--	--
MAR. 20...	44	2.0	50	14	18	1.3	20	2.4	34	16	139	--
APR. 24...	84	3.4	100	36	29	7.8	20	2.2	31	31	189	25
MAY 08...	115	5.0	150	54	43	10	23	2.6	38	35	243	10
JUNE 11...	145	1.8	170	49	46	13	29	3.5	47	43	285	19
JULY 23...	120	--	150	43	41	11	25	3.0	36	34	293	3
AUG. 13...	--	--	170	--	47	12	30	3.2	45	38	611	17
SEP. 11...	--	--	190	--	55	13	26	2.0	47	50	322	6

01393500 ELIZABETH RIVER AT ELIZABETH, N. J.

LOCATION.--Lat 40°40'03", long 74°13'09", Union County, at Westfield Avenue bridge in Elizabeth.

DRAINAGE AREA.--20.2 mi² (51.8 km²).

PERIOD OF RECORD.--Chemical analyses: August 1962 to September 1972 (partial-record station), October 1972 to September 1975.

REMARKS.--Records of discharge are given for 01393450 Elizabeth River at Ursino Lake. Miscellaneous storm sediment samples collected during water years 1974-75.

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	TEMPERATURE (DEG C)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	DISSOLVED OXYGEN (MG/L)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L)	IMMEDIATE COLIFORM (COL. PER 100 ML)	FECAL COLIFORM (EC BROTH) (MPN)	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)	TURBIDITY (JTU)
OCT. 30...	1015	4.9	13.7	1639	7.2	3.9	>8.1	29200	--	12500	4500	--
NOV. 21...	0935	14	10.5	495	7.7	6.5	14	32400	--	10000	28500	--
MAR. 20...	0835	48	9.2	554	7.8	9.6	4.2	--	5400	11600	--	20
APR. 24...	0830	E42	11.6	193	7.4	9.4	--	--	16000	2000	--	35
MAY 08...	0835	E25	13.4	487	7.5	6.2	5.4	--	1300	11600	--	6
JUNE 11...	1525	E7.8	23.3	642	8.0	7.2	3.8	--	1700	--	--	2
JULY 23...	1030	16	24.0	487	7.4	7.8	2.8	--	270	5200	--	5
AUG. 13...	1000	8.3	23.0	576	6.8	6.3	3.2	--	1100	800	--	1
SEP. 11...	1000	8.0	18.5	686	--	6.2	6.6	--	--	1300	--	2

DATE	COLOR (PLATINUM-COBALT UNITS)	TOTAL ORGANIC NITROGEN (N) (MG/L)	AMMONIA NITROGEN (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL ORTHO PHOSPHORUS (P) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)	ALKALINITY AS CACO3 (MG/L)	CARBONATE (CO3) (MG/L)
OCT. 30...	--	--	--	--	--	--	--	--	--	--	--	--
NOV. 21...	--	.54	.20	.14	1.1	.82	2.0	.19	.13	12	--	--
MAR. 20...	20	.08	.10	.02	.97	.18	1.2	.10	.03	7.0	56	0
APR. 24...	10	.47	.35	.06	.80	.82	1.0	.26	.07	9.7	21	--
MAY 08...	10	.77	.33	.13	1.6	1.1	2.6	.21	.10	8.5	101	0
JUNE 11...	10	.54	.46	.18	2.5	1.0	3.7	.12	.06	8.4	140	--
JULY 23...	6	.49	.14	.05	2.2	.63	2.8	.10	.06	4.2	126	0
AUG. 13...	2	.49	.11	.24	2.4	.60	3.2	.08	.06	5.6	--	0
SEP. 11...	1	.41	.13	.07	2.0	.54	2.6	.11	.08	7.7	146	--

DATE	BICARBONATE (HCO3) (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	HARDNESS (CA,MG) (MG/L)	NON-CARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	TOTAL NONFILTRABLE RESIDUE (MG/L)
OCT. 30...	--	--	--	--	--	--	--	--	--	--	--	--
NOV. 21...	--	--	--	--	--	--	--	--	--	--	--	--
MAR. 20...	68	1.7	98	43	32	4.5	61	2.1	110	36	317	20
APR. 24...	26	1.7	41	20	13	2.1	20	1.6	27	18	113	44
MAY 08...	123	6.2	190	92	63	8.7	27	2.4	48	63	324	15
JUNE 11...	171	2.7	230	92	70	14	30	3.1	57	97	433	2
JULY 23...	153	9.7	190	63	60	9.5	35	2.7	63	49	358	0
AUG. 13...	--	--	230	--	70	13	20	2.9	50	64	388	8
SEP. 11...	178	--	260	110	80	15	32	2.3	64	70	424	2

01393500 ELIZABETH RIVER AT ELIZABETH, N. J.--Continued

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	TEMPER-ATURE (DEG C)	INSTAN-TANEOUS DIS-CHARGE (CFS)	SUS-PENDED SEDI-MENT (MG/L)	SUS-PENDED SEDI-MENT DIS-CHARGE (T/DAY)
OCT.					
30...	1015	13.7	4.9	5	.07
DEC.					
16...	1045	6.9	164	8	3.5
16...	1400	6.7	197	699	372
MAR.					
20...	0835	9.2	48	15	1.9
APR.					
03...	1040	10.6	158	290	124
03...	1105	10.3	222	276	165
03...	1700	10.6	52	93	13
03...	1720	10.8	65	114	20
24...	0830	11.6	E42	58	6.6

01396500 SOUTH BRANCH RARITAN RIVER NEAR HIGH BRIDGE, N. J.

LOCATION.--Lat 40°40'40", long 74°52'45", Hunterdon County, water-quality recorder at gaging station, 1.0 mi (1.6 km) northeast of High Bridge, and 4.4 mi (7.1 km) upstream from Spruce Run.

DRAINAGE AREA.--65.3 mi² (169.1 km²).

PERIOD OF RECORD.--Chemical analyses: Water years 1961-65 (partial-record station), January 1966 to September 1975.
Water temperatures: October 1960 to September 1975.

EXTREMES.--1974-75:
Specific conductance: Maximum, 294 micromhos Jan. 30; minimum, 45 micromhos Mar. 20.
Water temperatures: Maximum, 23.0°C June 24; minimum, freezing point on several days during winter months.
Period of record:
Specific conductance (1968-75): Maximum, 294 micromhos Jan. 30, 1975; minimum, 45 micromhos March 20, 1975.
Water temperatures: Maximum, 28.0°C July 3, 1966; minimum, freezing point on many days during winter months.

REMARKS.--Miscellaneous storm sediment samples collected during water-years 1961, 67-73. Missing continuous water-quality records are the result of malfunction of sensor or sampling mechanism.

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	TEMPER- ATURE (DEG C)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	DIS- SOLVED OXYGEN (MG/L)	BIO- CHEM- ICAL OXYGEN DEMAND 5 DAY (MG/L)	IMME- DIATE COLI- FORM (COL. PER 100 ML)	FECAL COLI- FORM (EC BROTH) (MPN)	FECAL COLI- FORM (COL. PER 100 ML)	STREP- TOCOCCI (COL- ONIES PER 100 ML)	TUR- BID- ITY (JTU)
OCT. 16...	1110	228	11.2	169	8.2	--	3.2	600	--	1040	4320	--
NOV. 19...	1200	80	6.0	188	8.5	12.1	1.4	176	--	52	104	--
MAR. 25...	1340	287	9.3	144	7.7	10.8	1.8	--	350	920	--	4
APR. 17...	1940	132	12.3	156	8.0	11.6	2.2	--	49	<10	--	2
MAY 07...	1300	317	12.1	124	8.0	10.8	2.9	--	>2400	1310	--	23
JUNE 04...	1320	113	17.6	190	8.3	9.5	2.0	--	130	80	--	15
JULY 09...	1430	75	21.0	185	8.2	8.7	.8	--	110	104	--	1
AUG. 12...	1230	96	21.5	216	8.4	9.0	1.0	--	110	--	--	2
SEP. 09...	1300	61	17.2	233	--	10.6	.7	--	--	50	--	1

DATE	COLOR (PLAT- INUM- COBALT UNITS)	TOTAL ORGANIC NITRO- GEN (N) (MG/L)	AMMONIA NITRO- GEN (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL KJEL- DAHL NITRO- GEN (N) (MG/L)	TOTAL NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	TOTAL ORTHO PHOS- PHORUS (P) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)	ALKA- LINITY AS CACO3 (MG/L)	CAR- BONATE (CO3) (MG/L)
OCT. 16...	--	--	--	--	--	--	--	--	--	--	--	--
NOV. 19...	--	.05	.10	.00	1.0	.15	1.2	.08	.06	2.5	--	--
MAR. 25...	11	.15	.03	.01	.08	.18	1.1	.05	.02	2.9	--	0
APR. 17...	2	.11	.02	.01	.82	.13	.96	.06	.03	2.0	48	0
MAY 07...	36	.66	.05	.02	.67	.71	1.4	.11	.04	15	26	0
JUNE 04...	50	.21	.00	.03	1.2	.21	1.4	.09	.05	26	39	0
JULY 09...	2	.13	.00	.01	1.2	.13	1.3	.09	.06	1.8	70	0
AUG. 12...	1	.24	.00	.01	1.2	.24	1.4	.05	.06	3.1	64	0
SEP. 09...	4	.19	.00	.02	1.4	.19	1.6	.08	.06	4.2	75	--

DATE	BICAR- BONATE (HCO3) (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	HARD- NESS (CA,MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L)	DIS- SOLVED SODIUM (NA) (MG/L)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L)	TOTAL NON- FILT- RABLE RESIDUE (MG/L)
OCT. 16...	--	--	--	--	--	--	--	--	--	--	--	--
NOV. 19...	--	--	--	--	--	--	--	--	--	--	--	--
MAR. 25...	--	--	40	--	9.0	4.3	6.1	.7	13	14	87	10
APR. 17...	58	.1	67	20	15	7.2	4.9	1.1	12	11	113	6
MAY 07...	32	.5	42	16	10	4.2	5.0	1.1	12	12	90	44
JUNE 04...	48	.4	60	21	19	3.1	14	4.0	20	27	130	30
JULY 09...	85	.9	80	11	17	9.2	7.4	1.4	13	13	125	6
AUG. 12...	70	.5	70	6	13	9.0	6.9	1.3	10	9.6	122	10
SEP. 09...	91	--	89	14	19	10	7.3	1.4	11	11	134	2

01396500 SOUTH BRANCH RARITAN RIVER NEAR HIGH BRIDGE, N. J.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS AT 25°C), WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	OCTOBER MAX	OCTOBER MIN	OCTOBER MEAN	NOVEMBER MAX	NOVEMBER MIN	NOVEMBER MEAN	DECEMBER MAX	DECEMBER MIN	DECEMBER MEAN	JANUARY MAX	JANUARY MIN	JANUARY MEAN
1	155	141	149	204	198	201	176	173	174	203	171	183
2	158	155	---	206	195	200	172	70	112	200	180	190
3	---	---	---	205	198	202	129	89	110	195	181	187
4	---	---	---	203	196	200	149	131	141	181	177	179
5	---	---	---	202	199	201	160	150	155	179	174	176
6	---	---	---	199	190	196	161	156	159	177	176	176
7	---	---	---	195	185	190	162	155	161	230	175	191
8	---	---	---	195	186	191	163	60	116	231	189	215
9	---	---	---	196	187	191	116	64	90	212	88	132
10	---	---	---	194	186	191	136	118	128	198	101	128
11	---	---	---	193	183	189	141	136	139	163	149	153
12	---	---	---	193	175	187	146	143	144	157	146	152
13	---	---	---	167	99	126	148	144	146	157	142	151
14	---	---	---	151	124	138	151	147	148	177	153	168
15	---	---	---	159	151	155	153	149	151	187	167	180
16	169	133	---	160	155	157	154	91	136	187	171	179
17	160	132	146	164	159	161	126	88	105	175	168	171
18	188	149	177	166	159	162	145	127	137	215	176	179
19	195	186	192	168	163	165	152	145	149	207	172	194
20	200	195	197	167	166	167	155	150	153	186	173	180
21	201	197	199	165	156	161	157	154	156	187	176	183
22	203	199	201	161	154	157	159	154	156	180	172	177
23	202	201	202	167	160	163	161	156	158	192	177	185
24	202	200	201	168	164	166	162	159	161	189	178	182
25	203	200	201	168	163	166	162	157	160	178	139	167
26	201	199	200	166	162	163	157	147	151	147	119	130
27	202	198	199	171	165	167	162	155	158	163	148	157
28	204	198	200	173	169	171	165	160	162	166	162	164
29	205	201	203	173	168	170	168	163	166	164	137	155
30	209	202	205	175	171	173	170	167	168	294	137	158
31	208	197	203	---	---	---	170	166	168	165	160	163
MONTH	---	---	---	206	99	174	176	60	146	294	88	171

DAY	FEBRUARY MAX	FEBRUARY MIN	FEBRUARY MEAN	MARCH MAX	MARCH MIN	MARCH MEAN	APRIL MAX	APRIL MIN	APRIL MEAN	MAY MAX	MAY MIN	MAY MEAN
1	167	164	166	167	165	166	167	130	144	185	178	180
2	169	167	168	169	164	167	151	145	148	180	171	175
3	173	166	170	---	---	---	149	90	113	179	171	175
4	176	170	173	---	---	---	116	67	95	180	138	171
5	189	169	176	192	191	---	133	117	126	139	104	118
6	213	183	197	190	186	188	136	127	133	160	138	152
7	214	199	209	185	182	183	142	131	137	159	113	132
8	212	189	199	185	177	181	143	139	141	158	132	147
9	198	180	186	184	170	176	146	138	143	168	157	164
10	188	179	184	182	170	173	153	144	148	171	166	169
11	189	183	186	179	173	176	156	149	152	173	167	170
12	190	182	187	174	167	171	158	153	156	176	169	173
13	191	182	185	167	151	158	160	154	157	171	105	126
14	193	181	188	174	154	161	163	156	159	137	81	106
15	199	193	197	190	171	181	164	160	162	164	130	155
16	201	197	199	183	169	177	163	157	159	162	129	148
17	210	198	202	179	167	172	166	157	162	158	139	149
18	214	187	198	168	159	162	173	165	169	161	155	158
19	187	169	177	164	85	144	172	165	169	165	158	161
20	173	162	167	77	48	63	171	166	168	171	163	167
21	176	168	173	115	73	100	178	169	174	173	168	171
22	181	173	175	129	116	119	180	173	177	176	172	174
23	181	157	173	124	117	121	184	176	180	179	173	176
24	159	128	147	126	118	122	184	155	173	184	176	179
25	141	107	122	124	116	120	153	120	138	183	180	181
26	161	143	155	133	128	131	143	126	134	181	176	179
27	165	160	162	142	132	138	162	140	153	187	181	184
28	167	162	165	143	137	141	174	164	168	197	187	191
29	---	---	---	146	138	142	177	173	175	202	194	198
30	---	---	---	141	113	138	181	176	178	202	175	196
31	---	---	---	139	116	129	---	---	---	180	156	187
MONTH	214	107	178	192	48	150	184	60	153	202	81	180

01396500 SOUTH BRANCH RARITAN RIVER NEAR HIGH BRIDGE, N. J.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS AT 25°C), WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	161	132	147	204	187	195	---	---	---	215	203	210
2	177	143	162	217	206	211	---	---	---	222	214	219
3	198	179	185	222	212	218	---	---	---	222	218	220
4	200	191	198	223	218	221	---	---	---	226	219	223
5	201	160	191	227	222	225	---	---	---	229	224	226
6	163	122	137	229	226	228	---	---	---	229	226	228
7	152	110	133	229	214	222	---	---	---	229	221	226
8	175	156	166	223	215	219	---	---	---	232	225	229
9	186	175	179	226	209	217	---	---	---	234	230	232
10	188	184	186	206	177	192	---	---	---	233	228	231
11	191	188	189	223	208	215	212	203	---	236	231	234
12	198	124	163	228	224	226	213	205	209	241	198	228
13	145	126	129	229	54	99	216	209	211	213	143	157
14	172	140	161	105	78	92	214	210	212	190	166	185
15	186	173	177	142	84	123	219	207	211	211	200	206
16	184	155	174	143	121	131	219	199	200	221	211	216
17	178	173	176	165	135	151	207	197	202	230	220	226
18	188	180	185	---	---	---	211	204	209	229	227	228
19	191	161	183	---	---	---	219	209	214	229	223	226
20	182	164	173	---	---	---	223	217	220	226	209	217
21	197	183	192	---	---	---	229	220	225	213	177	193
22	203	197	200	---	---	---	228	225	227	202	181	190
23	209	203	205	202	200	---	232	225	227	201	96	130
24	214	209	211	218	199	205	232	168	222	113	83	100
25	214	204	211	144	64	91	141	80	105	101	71	86
26	214	202	208	---	---	---	180	111	147	132	95	121
27	215	211	214	---	---	---	203	170	189	149	125	137
28	216	134	192	---	---	---	206	186	199	163	150	159
29	196	168	186	---	---	---	213	183	208	173	164	170
30	187	177	182	---	---	---	215	211	213	180	173	177
31	---	---	---	---	---	---	210	197	202	---	---	---
MONTH	216	110	180	---	---	---	---	---	---	241	71	195

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	13.5	11.5	12.5	14.5	11.5	13.0	2.5	1.5	2.0	4.5	3.0	3.5
2	11.5	10.5	---	14.5	12.5	13.5	4.0	2.5	3.5	4.0	2.5	3.0
3	---	---	---	13.0	12.5	13.0	4.5	3.5	4.0	2.5	1.5	2.0
4	---	---	---	14.5	12.0	13.0	3.0	0.5	2.0	3.5	2.0	3.0
5	---	---	---	13.0	12.5	13.0	2.0	0.5	1.0	4.5	2.5	3.5
6	---	---	---	12.5	11.0	11.5	2.0	1.0	1.5	2.5	1.5	2.5
7	---	---	---	11.0	9.5	10.0	4.0	1.0	2.5	4.0	2.5	3.0
8	---	---	---	9.5	8.0	9.0	7.5	4.0	6.5	3.5	1.5	2.5
9	---	---	---	9.5	7.5	8.5	7.5	4.5	6.5	4.5	3.5	4.5
10	---	---	---	8.5	7.0	7.5	4.5	2.5	3.5	5.0	4.0	4.5
11	---	---	---	8.0	6.0	7.0	3.0	1.5	2.5	8.0	5.0	6.5
12	---	---	---	10.0	7.0	8.5	5.0	3.0	4.0	8.0	7.0	7.5
13	---	---	---	10.0	8.0	9.5	5.5	5.0	5.0	6.5	3.0	5.0
14	---	---	---	8.0	7.5	8.0	6.0	5.5	5.5	2.5	0.5	1.5
15	---	---	---	8.0	6.0	7.0	5.5	4.5	5.0	0.5	0.0	0.0
16	12.0	11.0	---	6.0	4.5	5.5	5.5	5.0	5.0	0.5	0.0	0.0
17	12.5	10.5	11.5	5.5	4.5	5.0	5.5	5.0	5.5	0.5	0.0	0.0
18	11.5	8.5	10.0	6.5	4.0	5.0	5.0	3.5	4.5	1.5	0.0	0.0
19	8.0	7.0	7.5	7.0	4.5	6.0	3.5	3.0	3.0	3.0	0.5	2.0
20	7.0	5.5	6.5	7.5	6.5	7.5	4.0	3.0	3.5	3.0	0.0	1.5
21	7.0	4.5	6.0	7.5	5.5	7.0	5.0	4.0	4.5	0.5	0.0	0.0
22	7.5	5.0	6.5	5.5	3.5	4.5	5.0	4.5	4.5	2.5	0.5	1.5
23	8.5	6.0	7.5	4.0	2.5	3.0	4.5	2.5	3.5	3.5	2.0	2.5
24	9.5	7.5	8.0	5.0	2.5	4.0	5.5	4.5	5.0	3.5	1.5	2.5
25	8.5	7.5	8.0	5.5	4.5	5.0	5.0	4.5	5.0	4.0	3.0	3.5
26	9.5	7.5	8.5	4.0	1.5	2.5	4.5	3.0	3.5	3.5	2.5	3.0
27	10.0	7.5	9.0	2.0	0.5	1.5	3.5	2.5	3.0	3.5	2.5	3.0
28	9.5	7.5	8.5	3.5	1.5	2.5	4.5	3.0	3.5	4.0	2.0	3.5
29	11.5	8.5	10.0	3.5	2.0	2.5	4.5	2.5	3.5	4.5	4.0	4.5
30	12.5	10.0	11.5	2.0	1.0	1.5	5.5	4.0	5.0	4.5	4.0	4.5
31	13.5	12.5	13.0	---	---	---	4.5	2.5	3.0	4.5	2.5	3.0
MONTH	---	---	---	14.5	0.5	7.0	7.5	0.5	4.0	8.0	0.0	3.0

01396500 SOUTH BRANCH RARITAN RIVER NEAR HIGH BRIDGE, N. J.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	2.5	2.0	2.5	5.5	3.5	4.5	9.5	5.0	7.5	12.5	10.5	11.5
2	3.0	1.5	2.0	4.5	2.5	3.0	10.5	7.5	9.0	12.0	10.0	11.0
3	2.5	1.0	2.0	---	---	---	9.5	7.0	8.5	15.5	10.0	12.5
4	1.5	0.5	1.0	---	---	---	6.5	4.5	5.0	14.0	10.5	12.5
5	2.0	0.5	1.5	4.0	3.5	---	4.5	2.5	4.0	14.0	10.0	12.0
6	4.5	2.0	3.5	6.0	3.0	4.5	5.0	3.5	4.5	13.5	11.5	12.5
7	4.5	3.0	4.0	6.5	4.5	5.5	7.0	3.0	5.5	14.5	11.5	13.0
8	3.0	1.0	1.5	7.0	4.0	6.0	8.5	5.0	7.0	16.5	12.0	14.0
9	2.5	0.5	1.5	4.0	1.0	3.0	9.5	5.5	7.5	16.5	13.0	15.0
10	1.0	0.0	0.0	3.0	1.5	2.0	10.0	6.5	8.5	17.5	13.5	15.5
11	1.5	0.0	1.0	5.0	3.0	4.0	10.0	7.0	8.5	18.0	13.0	15.5
12	1.0	0.0	0.0	5.0	4.5	4.5	10.0	7.5	8.5	18.0	14.5	16.0
13	0.0	0.0	0.0	7.0	5.0	6.0	8.5	6.5	7.5	17.0	15.0	15.5
14	2.0	0.0	1.0	6.5	2.5	4.0	10.5	6.0	8.0	18.0	13.5	15.5
15	3.0	0.5	2.0	4.5	1.5	3.0	9.5	7.5	8.5	18.0	14.5	16.5
16	4.5	3.0	4.0	5.0	2.5	4.0	11.5	7.5	9.5	17.0	15.0	16.0
17	4.5	4.5	4.5	7.5	4.0	6.0	13.5	9.5	11.5	18.0	14.5	16.0
18	4.5	4.0	4.0	7.5	4.5	6.5	13.0	10.0	11.5	17.0	15.0	15.5
19	5.5	4.0	4.5	7.5	6.5	7.0	13.0	11.5	12.0	18.5	14.5	16.5
20	5.0	3.0	4.5	7.5	6.0	7.0	12.5	10.5	11.0	20.0	16.0	18.0
21	4.5	4.0	4.0	7.0	4.5	5.5	12.5	8.5	10.5	19.0	17.5	18.5
22	5.5	3.0	5.0	7.0	6.0	6.5	12.5	8.0	10.0	19.5	15.5	18.0
23	6.0	5.0	5.5	9.0	6.5	7.5	14.0	9.0	11.5	21.0	17.0	19.0
24	6.0	5.5	6.0	8.0	7.0	7.0	12.5	12.0	12.0	22.0	18.0	20.0
25	6.5	5.5	5.5	9.0	7.0	8.0	14.0	11.0	13.0	20.5	15.5	18.0
26	5.5	4.5	5.0	8.5	6.0	7.5	14.5	11.0	13.0	16.5	14.5	15.5
27	5.5	3.5	4.5	6.0	3.0	4.5	13.5	10.0	12.0	19.5	15.0	17.5
28	5.0	3.0	4.0	6.0	2.5	4.5	13.5	10.0	11.5	21.0	16.5	18.5
29	---	---	---	6.5	5.0	5.5	12.0	10.5	11.0	20.5	16.0	18.0
30	---	---	---	7.0	6.0	6.5	14.0	10.0	11.5	17.5	16.0	17.0
31	---	---	---	7.0	4.0	5.5	---	---	---	18.5	14.5	17.0
MONTH	6.5	0.0	3.0	9.0	1.0	5.5	14.5	2.5	9.5	22.0	10.0	15.5

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	19.0	17.5	18.5	21.0	16.5	18.5	---	---	---	17.5	16.0	16.5
2	20.0	17.0	18.5	21.5	16.5	19.0	---	---	---	18.0	15.5	16.5
3	19.5	17.5	18.0	22.0	18.0	19.5	---	---	---	18.0	15.5	16.0
4	19.0	15.5	17.5	22.0	17.5	19.5	---	---	---	17.0	14.5	15.5
5	17.5	15.0	16.5	22.0	18.0	19.5	---	---	---	18.0	14.0	16.0
6	16.5	15.0	15.5	19.5	18.0	19.0	---	---	---	18.0	16.0	17.0
7	16.0	14.5	15.0	21.0	17.5	19.0	---	---	---	18.5	15.0	17.0
8	15.5	14.5	15.0	21.0	18.5	19.5	---	---	---	19.0	17.0	18.0
9	17.0	14.0	15.0	20.0	18.5	19.0	---	---	---	18.5	16.0	17.5
10	18.0	14.0	16.0	21.5	18.0	19.5	---	---	---	17.0	13.5	15.0
11	18.0	14.5	16.0	22.0	19.0	20.0	20.5	18.5	---	14.5	13.0	14.0
12	16.5	15.0	15.5	20.0	19.0	19.5	22.0	18.5	20.0	16.0	14.5	15.5
13	18.0	14.5	16.5	19.5	18.5	19.0	22.0	18.5	20.0	16.0	14.0	15.0
14	19.0	16.5	18.0	19.5	18.0	19.0	22.5	19.5	20.5	15.0	12.5	13.5
15	19.0	17.5	18.0	19.5	18.5	19.0	22.0	18.5	20.0	14.0	11.0	12.5
16	18.0	17.0	17.5	21.0	19.0	20.0	19.5	18.0	19.0	13.5	11.5	12.5
17	19.5	17.0	18.0	21.0	19.0	20.5	18.0	17.5	17.5	15.0	12.0	13.5
18	21.0	18.5	19.5	---	---	---	20.0	17.5	18.5	15.5	14.0	14.5
19	20.5	19.0	19.5	---	---	---	20.5	17.0	18.5	15.0	14.5	15.0
20	21.0	18.0	19.5	---	---	---	21.0	18.0	19.0	17.5	15.0	16.0
21	21.0	17.5	19.0	---	---	---	19.5	17.0	18.0	17.0	16.0	17.0
22	20.5	17.0	18.5	---	---	---	21.0	18.0	19.0	17.0	14.5	15.5
23	22.0	17.5	19.5	21.5	20.0	---	20.0	17.0	18.5	15.5	14.5	15.0
24	23.0	19.0	21.0	21.0	19.0	20.0	18.5	17.5	18.0	14.5	14.5	14.5
25	22.0	20.0	21.0	20.5	19.5	20.0	22.0	18.0	20.0	14.5	14.5	14.5
26	20.5	18.0	19.5	---	---	---	22.5	20.5	21.5	15.5	14.5	14.5
27	18.0	17.5	17.5	---	---	---	22.5	20.0	21.0	17.5	15.0	16.0
28	18.5	17.0	17.5	---	---	---	21.5	18.0	19.5	16.0	14.0	15.0
29	19.0	17.5	18.0	---	---	---	20.0	17.5	18.5	15.0	13.0	14.0
30	21.0	17.5	19.0	---	---	---	19.0	18.0	18.5	15.5	13.0	14.0
31	---	---	---	---	---	---	18.0	16.5	17.5	---	---	---
MONTH	23.0	14.0	18.0	---	---	---	---	---	---	19.0	11.0	15.0

01396800 SPRUCE RUN AT CLINTON, N. J.

LOCATION.--Lat 40°38'21", long 74°54'58", Hunterdon County, at gaging station 1,800 ft (549 m) downstream from Spruce Run Reservoir dam, and 0.2 mi (0.3 km) north of Clinton.

DRAINAGE AREA.--41.3 mi² (107 km²).

PERIOD OF RECORD.--Chemical analyses: Water years 1967-72 (partial-record station), August to September 1975. Water temperatures: October 1968 to September 1969, January 1971 to September 1975.

EXTREMES.--1974-75:
Water temperatures: Maximum daily, 16.0°C Oct. 1, 2; minimum daily, 1.5°C on several days during January and February.
Period of record:
Water temperatures: Maximum daily, 24.5°C July 31, 1973; minimum daily, freezing point on many days during winter months.

REMARKS.--Miscellaneous storm sediment samples collected during water years 1960-62.

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	TEMPERATURE (DEG C)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	DISSOLVED OXYGEN (MG/L)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L)	IMMEDIATE COLIFORM (COL. PER 100 ML)	FECAL COLIFORM (FC BROTH) (MPN)	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)	TURBIDITY (JTU)
OCT. 10...	0940	82	12.5	177	7.0	10.0	2.8	2200	--	1400	1456	--
NOV. 19...	0900	57	7.0	168	6.2	12.2	1.9	360	--	224	108	--
MAR. 25...	1445	248	7.0	142	7.8	12.1	1.5	--	<10	10	--	2
APR. 10...	0940	57	6.0	137	7.9	12.6	1.3	--	<2	2	--	2
MAY 07...	1415	101	12.0	144	8.3	10.8	.8	--	33	2	--	4
JUNE 04...	1430	64	21.9	140	8.7	9.4	2.0	--	13	12	--	1
JULY 09...	1645	64	24.0	126	8.3	9.9	1.0	--	49	142	--	1
AUG. 12...	1430	49	27.5	145	8.3	11.6	1.6	--	46	--	--	1
SEP. 09...	1330	77	20.0	150	--	10.2	.6	--	--	200	--	1

DATE	COLOR (PLATINUM-COBALT UNITS)	TOTAL ORGANIC NITROGEN (N) (MG/L)	AMMONIA NITROGEN (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL ORTHO PHOSPHORUS (P) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)	ALKALINITY AS CACO3 (MG/L)	CARBONATE (CO3) (MG/L)
OCT. 10...	--	--	--	--	--	--	--	--	--	--	--	--
NOV. 19...	--	.19	.12	.01	.64	.31	.96	.04	.02	3.0	--	--
MAR. 25...	6	.17	.02	.04	.37	.19	.60	.02	.00	2.4	30	0
APR. 10...	4	.27	.02	.01	.24	.29	.54	.02	.00	5.4	32	0
MAY 07...	4	.34	.00	.02	.25	.34	.61	.02	.01	6.7	30	0
JUNE 04...	5	.18	.00	.01	.10	.18	.29	.02	.01	10	33	0
JULY 09...	1	.25	.00	.01	.08	.25	.34	.03	.01	4.4	36	0
AUG. 12...	2	.28	.01	.01	.09	.29	.39	.01	.01	5.0	38	0
SEP. 09...	1	.26	.03	.01	.07	.29	.37	.01	.01	--	38	--

DATE	BICARBONATE (HCO3) (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	HARDNESS (CA,MG) (MG/L)	NON-CARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	TOTAL NONFILTRABLE RESIDUE (MG/L)
OCT. 10...	--	--	--	--	--	--	--	--	--	--	--	--
NOV. 19...	--	--	--	--	--	--	--	--	--	--	--	--
MAR. 25...	37	.9	45	14	11	4.2	6.1	1.2	10	19	77	18
APR. 10...	39	.8	48	16	13	3.8	6.5	1.2	9.5	18	97	2
MAY 07...	36	.3	49	19	12	4.5	6.1	1.2	10	20	98	10
JUNE 04...	40	.1	49	17	12	4.7	5.8	1.2	7.4	18	85	4
JULY 09...	44	.4	49	13	12	4.7	5.9	1.3	9.4	20	88	1
AUG. 12...	46	.4	53	15	13	4.9	4.9	1.4	4.7	15	88	2
SEP. 09...	46	--	55	17	13	5.5	5.4	1.4	6.4	17	94	2

01396800 SPRUCE RUN AT CLINTON, N. J.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
(ONCE DAILY MEASUREMENT BETWEEN 0800 AND 1000)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	16.0	12.5	7.0	3.0	2.5	3.0	5.0	9.5	10.5	11.0	12.0	11.0
2	16.0	11.5	7.0	3.0	3.0	3.0	5.0	9.5	11.0	11.0	11.5	11.0
3	15.5	12.0	6.5	2.5	1.5	2.5	5.5	9.5	12.0	12.0	12.0	11.0
4	15.0	12.0	5.0	4.5	2.0	2.5	5.0	9.5	11.5	12.0	12.0	11.0
5	15.0	12.0	4.5	2.5	2.0	2.0	4.5	10.0	12.0	12.5	12.0	11.5
6	15.0	11.5	4.5	2.5	1.5	2.5	4.5	10.0	12.0	12.5	15.0	11.5
7	15.0	11.5	4.5	3.0	2.0	3.0	4.0	10.0	11.5	12.0	12.0	11.0
8	14.5	12.0	5.0	3.0	1.5	3.0	5.0	10.0	11.5	13.0	11.5	11.0
9	14.5	12.0	5.0	3.0	2.0	2.5	5.0	10.5	11.0	13.0	12.0	11.0
10	15.0	11.5	4.5	3.5	1.5	2.5	5.0	10.5	13.0	13.0	11.5	11.0
11	15.0	11.5	5.0	3.5	2.0	2.5	5.5	10.5	11.5	13.0	12.0	11.0
12	14.5	11.0	5.0	3.5	2.5	3.0	6.0	11.0	13.0	12.5	13.0	13.0
13	15.0	11.0	4.5	3.5	3.0	4.5	6.5	11.5	12.0	13.0	12.0	11.5
14	15.0	11.0	4.0	3.0	3.0	4.0	6.0	11.5	12.5	13.0	12.0	11.0
15	15.0	10.5	4.0	2.5	3.0	4.0	7.0	10.5	12.0	12.5	11.5	11.0
16	14.5	10.0	5.0	3.0	3.0	3.5	7.0	11.0	12.5	13.0	12.0	11.0
17	14.5	10.0	5.0	3.0	3.5	4.0	7.5	11.0	12.0	12.5	11.5	11.0
18	14.5	10.0	4.0	3.5	3.0	3.5	7.5	11.5	12.0	12.5	11.5	11.5
19	14.0	9.5	4.0	3.0	2.5	4.5	7.5	11.5	12.5	13.0	12.0	11.5
20	13.0	9.5	3.5	3.0	5.0	4.5	7.0	12.0	12.0	12.5	12.0	11.5
21	12.5	9.0	3.5	1.5	3.0	5.0	9.0	11.5	12.0	12.5	11.0	12.0
22	12.0	9.0	4.0	1.5	3.5	5.0	8.0	11.5	12.0	12.0	11.5	11.0
23	12.0	8.5	4.0	2.0	4.0	5.0	8.0	11.5	12.0	11.0	11.0	11.5
24	12.0	8.0	4.0	2.0	4.0	5.0	8.0	11.5	12.0	11.5	12.0	11.5
25	11.5	8.0	4.5	2.0	4.5	5.5	8.5	11.0	14.0	12.0	13.0	11.5
26	11.5	7.0	4.0	2.0	3.0	5.0	9.0	10.5	12.0	11.0	11.5	11.5
27	12.0	6.5	4.0	2.0	3.0	4.5	9.0	10.5	12.0	11.0	12.0	11.5
28	11.5	6.5	4.5	2.0	3.0	4.5	9.5	10.5	13.5	11.5	11.0	11.0
29	12.0	6.0	4.0	2.5	----	5.0	9.5	10.5	12.5	12.0	11.0	11.5
30	12.0	6.0	4.0	2.5	----	5.0	9.5	10.5	12.5	12.0	11.0	11.5
31	12.0	----	4.0	3.0	----	5.0	----	11.0	----	11.5	11.0	----
MONTH	14.0	10.0	4.5	2.5	3.0	4.0	7.0	10.5	12.0	12.0	12.0	11.5

01397000 SOUTH BRANCH RARITAN RIVER AT STANTON, N. J.

LOCATION.--Lat 40°34'21", long 74°52'10", Hunterdon County, at gaging station on highway bridge at Stanton railroad station, 1.5 mi (2.6 km) west of Stanton.

DRAINAGE AREA.--147 mi² (381 km²).

PERIOD OF RECORD.--Chemical analyses: Water years 1960-65 (partial-record station), January 1966 to September 1975.
Water temperatures: December 1959 to November 1961, December 1968 to September 1975.
Sediment records: December 1959 to September 1965.

EXTREMES.--1974-75:
Specific conductance: Maximum, 252 micromhos Aug. 22; minimum, 69 micromhos March 20.
Water temperatures: Maximum, 28.5°C July 18; minimum, freezing point on several days during winter months.
Period of record:
Specific conductance (1968-75): Maximum, 407 micromhos Feb. 5, 1971; minimum, 67 micromhos Aug. 28, 1971.
Water temperatures (1959-61, 68-75): Maximum, 29.0°C July 2, 1961; minimum, freezing point on many days during winter months.

REMARKS.--Water-temperature records prior to 1968 were collected once-daily. Miscellaneous storm sediment samples collected during water years 1960-65, 67-73. Missing continuous water-quality records are the result of malfunction of sensor or sampling mechanism.

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	INSTANTANEOUS DIS-CHARGE (CFS)	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	DIS-SOLVED OXYGEN (MG/L)	BIO-CHEM-ICAL OXYGEN DEMAND 5 DAY (MG/L)	IMME-DIATE COLI-FORM (COL. PER 100 ML)	FECAL COLI-FORM (EC BROTH) (MPN)	FECAL COLI-FORM (COL. PER 100 ML)	STREP-TOCOCCI (COL-ONIES PER 100 ML)	TUR-BID-ITY (JTU)
OCT. 16...	0910	230	12.5	210	6.9	10.0	2.4	5600	--	6120	4050	--
NOV. 19...	1135	181	6.0	173	8.4	13.6	1.6	20	--	96	40	--
MAR. 25...	1615	710	9.0	151	8.0	12.0	1.6	--	22	28	--	6
APR. 17...	1655	E269	12.6	170	9.1	13.2	2.3	--	<2	4	--	3
MAY 09...	0910	300	14.1	154	7.7	10.3	1.7	--	110	86	--	4
JUNE 04...	1715	264	20.8	180	8.6	10.0	1.5	--	130	130	--	3
JULY 09...	1800	225	22.9	170	8.1	8.4	1.9	--	>2400	1050	--	8
AUG. 12...	1530	235	25.5	201	8.6	11.2	1.1	--	23	--	--	2
SEP. 09...	1500	167	20.0	232	--	10.8	.6	--	--	115	--	1

DATE	COLOR (PLAT-INUM-COBALT UNITS)	TOTAL ORGANIC NITRO-GEN (N) (MG/L)	AMMONIA NITRO-GEN (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	TOTAL ORTHO PHOS-PHORUS (P) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	CAR-BONATE (CO3) (MG/L)
OCT. 16...	--	--	--	--	--	--	--	--	--	--	--	--
NOV. 19...	--	.14	.12	.00	.92	.26	1.2	.06	.05	4.3	--	--
MAR. 25...	6	.08	.04	.01	.77	.12	.90	.06	.02	2.9	37	0
APR. 17...	2	.21	.04	.01	.72	.25	.98	.05	.03	2.3	45	0
MAY 09...	6	.26	.02	.02	.77	.28	1.1	.06	.02	8.4	39	0
JUNE 04...	9	.44	.00	.02	1.1	.44	1.5	.08	.04	6.2	49	0
JULY 09...	1	.26	.00	.01	.89	.26	1.2	.08	.03	3.8	54	0
AUG. 12...	4	.22	.02	.01	.79	.24	1.0	.04	.04	3.4	57	0
SEP. 09...	1	.21	.00	.01	1.1	.21	1.3	.06	.04	3.9	75	--

DATE	BICAR-BONATE (HCO3) (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	TOTAL NON-FILT-RABLE RESIDUE (MG/L)
OCT. 16...	--	--	--	--	--	--	--	--	--	--	--	--
NOV. 19...	--	--	--	--	--	--	--	--	--	--	--	--
MAR. 25...	45	.7	55	18	14	4.9	7.0	1.2	12	18	94	4
APR. 17...	55	.1	75	30	20	6.0	5.8	.9	11	16	103	0
MAY 09...	48	--	57	18	13	6.0	6.5	1.2	9.8	15	110	19
JUNE 04...	--	.2	68	--	16	6.0	7.0	1.4	8.6	14	105	6
JULY 09...	66	.8	68	14	16	6.9	6.6	1.6	9.7	17	109	18
AUG. 12...	69	.3	80	24	19	8.0	6.5	1.4	9.3	16	125	2
SEP. 09...	91	--	88	14	20	9.3	7.0	1.5	10	15	136	2

01397000 SOUTH BRANCH RARITAN RIVER AT STANTON, N. J.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS AT 25°C), WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	188	186	187	---	---	---	191	184	189	175	148	160
2	192	191	191	---	---	---	181	86	129	156	153	154
3	191	190	191	---	---	---	125	88	113	153	151	152
4	191	190	191	---	---	---	122	118	120	151	146	148
5	193	191	192	---	---	---	128	122	125	146	143	144
6	194	193	193	---	---	---	133	129	132	143	141	142
7	193	191	192	---	---	---	135	130	132	145	138	143
8	192	191	192	---	---	---	155	97	127	142	137	140
9	192	190	191	---	---	---	135	109	121	169	116	146
10	192	191	191	---	---	---	154	137	146	156	134	144
11	192	191	191	---	---	---	160	154	158	164	155	161
12	192	187	189	---	---	---	163	161	161	163	160	161
13	190	188	189	---	---	---	167	164	165	171	154	161
14	189	189	189	---	---	---	171	169	170	171	158	163
15	190	188	189	---	---	---	175	172	173	172	164	167
16	190	175	182	---	---	---	178	120	158	175	169	172
17	179	172	176	---	---	---	143	107	118	175	164	169
18	179	177	178	---	---	---	126	122	124	240	146	176
19	181	180	180	166	157	---	134	129	132	185	164	173
20	183	181	182	168	162	164	138	136	137	184	166	171
21	184	181	183	170	160	165	141	140	141	172	128	162
22	186	183	184	167	160	163	145	144	144	173	164	168
23	188	185	187	165	159	162	151	148	150	167	164	166
24	193	190	191	169	162	165	154	153	153	171	165	168
25	195	194	195	171	165	168	157	154	156	183	159	168
26	197	195	196	180	169	176	157	155	156	157	136	143
27	197	195	197	184	175	179	160	158	159	153	141	148
28	198	196	198	187	183	185	157	157	157	156	153	155
29	200	199	200	189	186	188	156	154	155	155	135	146
30	203	200	202	190	187	188	154	152	153	147	141	144
31	---	---	---	---	---	---	151	149	150	153	148	151
MONTH	203	172	190	---	---	---	191	86	145	240	116	157

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	154	153	153	165	162	164	127	123	125	186	180	183
2	155	154	154	171	168	170	133	129	131	185	180	183
3	155	152	154	179	172	177	135	115	131	190	180	184
4	158	154	156	184	182	183	116	109	113	197	174	186
5	187	155	164	195	188	192	124	119	122	175	143	149
6	191	166	178	193	192	192	129	127	128	155	148	152
7	184	169	175	190	188	189	134	131	133	165	151	161
8	179	167	175	192	185	189	138	136	137	162	154	156
9	176	167	171	191	187	188	141	139	140	175	166	170
10	167	135	158	188	185	187	144	142	143	181	176	179
11	166	163	165	190	184	187	148	145	147	188	182	185
12	165	115	151	190	183	186	150	147	149	194	187	191
13	163	115	138	187	173	178	151	149	150	197	167	180
14	168	123	148	189	163	169	155	152	154	141	123	126
15	170	135	160	205	185	193	157	150	155	143	134	138
16	177	165	167	200	177	183	158	149	154	147	143	145
17	190	171	178	195	174	183	162	154	157	149	142	146
18	182	157	167	173	126	149	165	156	161	153	150	151
19	159	146	153	172	78	145	169	160	165	158	154	156
20	148	141	143	95	69	82	167	158	162	165	160	162
21	155	149	152	93	74	89	172	162	166	170	167	168
22	165	161	163	100	94	97	185	173	178	176	170	173
23	175	167	170	102	101	102	194	183	188	180	175	177
24	174	118	152	105	103	104	197	186	192	184	180	182
25	128	119	123	108	103	106	188	163	176	189	186	188
26	134	129	131	106	105	106	164	151	155	193	187	190
27	145	141	143	112	107	109	168	155	157	194	184	189
28	155	151	152	116	114	115	173	163	168	196	186	192
29	---	---	---	119	118	119	179	174	176	202	195	198
30	---	---	---	122	118	121	184	176	180	205	176	199
31	---	---	---	124	120	122	---	---	---	185	171	180
MONTH	191	115	157	205	69	151	197	109	153	205	123	172

01397000 SOUTH BRANCH RARITAN RIVER AT STANTON, N. J.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS AT 25°C), WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	173	149	161	187	180	184	170	167	168	241	235	238
2	176	162	167	194	185	189	172	168	170	244	237	240
3	190	177	183	197	191	194	175	169	172	246	204	225
4	201	192	195	195	189	193	177	167	175	223	206	213
5	203	186	199	197	190	194	176	167	171	224	217	221
6	183	157	167	201	195	197	178	170	173	226	217	221
7	161	152	156	202	195	199	171	167	169	223	215	219
8	177	164	171	199	189	195	171	167	169	226	217	223
9	187	179	183	200	191	198	176	170	172	227	212	221
10	191	178	186	203	186	192	195	183	191	226	212	220
11	199	189	195	196	188	192	199	190	195	236	227	231
12	201	171	189	208	199	202	200	193	197	236	205	227
13	167	157	161	210	134	182	204	199	201	213	198	206
14	180	167	174	155	136	147	204	196	200	197	185	190
15	188	183	185	167	149	158	213	204	209	203	189	197
16	198	179	191	178	169	175	218	204	212	216	205	210
17	193	178	186	181	178	179	224	209	216	218	212	214
18	196	189	192	191	182	186	228	221	225	217	210	214
19	199	185	195	196	191	194	239	228	233	209	202	204
20	190	182	185	199	192	197	245	236	240	203	199	201
21	199	185	191	187	162	171	248	241	245	199	185	191
22	205	193	199	201	178	192	252	231	243	182	176	178
23	207	201	204	216	205	210	246	232	236	171	152	160
24	212	203	208	220	212	217	248	232	241	152	136	148
25	215	208	212	216	119	152	231	162	177	153	135	139
26	218	209	214	152	126	142	192	175	184	168	151	156
27	216	209	213	158	153	156	208	196	202	187	162	172
28	217	167	199	162	159	161	221	212	214	199	186	194
29	173	162	167	164	162	163	227	221	224	196	188	191
30	182	171	177	167	164	165	231	224	227	188	185	187
31	---	---	---	168	165	166	239	232	235	---	---	---
MONTH	218	149	187	220	119	181	252	162	203	246	135	202

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	16.0	14.0	15.0	15.0	12.0	13.5	2.0	1.5	1.5	3.5	2.0	3.0
2	15.0	13.0	13.5	15.0	12.5	14.0	4.0	2.0	3.0	3.0	2.0	2.5
3	13.0	11.0	12.0	13.5	13.0	13.5	4.5	3.0	3.5	1.5	1.0	1.5
4	13.0	10.0	11.5	15.5	13.0	14.5	3.0	1.5	2.0	3.0	1.5	2.0
5	13.5	11.0	12.5	14.0	13.5	13.5	2.5	0.5	1.5	3.0	2.0	2.5
6	15.0	11.5	13.5	13.5	12.0	13.0	2.5	0.5	1.5	2.5	1.0	2.0
7	15.0	13.0	14.0	12.5	11.0	11.5	4.0	1.0	2.5	4.0	2.0	3.0
8	14.0	11.5	13.0	10.5	9.0	10.0	7.5	4.0	6.0	3.5	1.5	2.5
9	14.0	11.5	13.0	10.5	8.0	9.0	7.0	4.0	6.0	5.0	3.5	4.0
10	14.5	11.5	13.5	9.5	7.0	8.5	4.0	2.5	3.5	4.5	3.0	4.0
11	14.5	11.5	13.0	9.0	6.5	8.0	3.5	2.0	2.5	7.5	4.5	6.0
12	14.5	12.0	13.5	11.0	8.0	9.5	4.0	2.5	3.5	7.0	6.0	6.5
13	13.5	13.0	13.5	11.0	8.0	10.0	4.5	3.5	4.0	6.5	3.0	5.0
14	13.5	13.0	13.0	9.0	7.0	8.0	5.0	4.0	4.5	3.0	0.5	2.0
15	14.5	12.5	13.5	8.5	6.0	7.5	4.0	3.0	3.5	1.0	0.0	0.5
16	13.5	11.5	12.5	6.5	5.0	6.0	5.0	4.0	4.5	1.5	0.0	0.5
17	13.0	10.5	12.0	6.0	4.5	5.5	5.5	4.5	4.5	1.0	0.0	0.5
18	11.5	9.0	10.5	6.5	4.5	6.0	4.0	3.0	3.5	1.0	0.0	0.5
19	10.0	7.5	8.5	7.5	5.5	6.5	3.0	2.5	3.0	2.5	1.0	2.0
20	8.0	6.5	7.5	8.0	7.0	7.5	3.5	2.5	3.0	2.5	0.5	1.5
21	7.5	5.5	6.5	7.5	5.5	6.5	4.0	3.0	3.5	1.0	0.0	0.5
22	8.5	5.5	7.0	5.5	3.5	4.5	4.5	3.5	4.0	2.5	0.5	1.5
23	9.0	6.5	8.0	5.0	2.5	3.5	4.0	2.0	3.0	3.0	1.5	2.0
24	9.5	7.0	8.0	6.0	3.0	4.5	5.0	4.0	4.0	3.5	1.0	2.0
25	9.0	7.0	8.0	5.5	4.0	5.0	4.5	3.5	4.0	3.0	2.5	3.0
26	10.0	7.5	9.0	3.5	0.5	2.0	3.5	2.5	3.0	3.0	2.0	2.5
27	10.5	8.0	9.0	2.0	0.0	1.0	3.0	2.0	2.5	3.0	2.0	2.0
28	10.5	7.5	9.0	2.5	1.0	1.5	3.5	2.5	3.0	3.0	2.0	2.5
29	12.0	9.5	10.5	3.0	1.0	2.0	4.0	2.0	3.0	4.0	2.5	3.5
30	12.5	10.5	11.5	2.0	0.5	1.0	5.0	3.0	4.0	3.5	2.5	3.5
31	13.0	12.0	12.5	---	---	---	3.0	2.0	2.5	3.0	2.0	3.0
MONTH	14.0	5.5	11.0	15.5	0.0	7.5	7.5	0.5	3.5	7.5	0.0	2.5

01397000 SOUTH BRANCH RARITAN RIVER AT STANTON, N. J.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	2.5	1.5	2.0	6.0	4.0	4.5	10.0	4.0	7.0	12.5	10.0	11.0
2	3.0	1.5	2.0	4.5	3.0	3.5	11.0	6.5	8.5	13.0	10.0	11.5
3	2.5	0.5	1.5	3.0	1.5	2.5	9.5	5.5	8.0	16.0	10.0	13.0
4	1.0	0.0	0.5	3.5	0.5	2.0	5.0	2.5	4.0	14.0	11.0	12.5
5	1.5	0.0	1.0	4.5	1.5	3.0	4.5	1.5	3.0	13.5	10.0	11.5
6	3.5	1.0	2.5	6.0	2.5	4.0	5.0	2.0	3.0	13.5	10.5	12.0
7	4.0	1.5	2.5	6.0	3.5	5.0	7.0	2.0	4.5	15.5	11.5	13.5
8	2.0	0.5	1.5	6.5	3.5	5.5	8.0	3.5	6.0	18.0	12.0	14.5
9	1.5	0.0	1.0	4.0	1.0	2.5	9.5	4.5	7.0	18.5	14.0	16.0
10	1.0	0.0	0.0	3.5	1.5	2.5	10.5	5.0	8.0	18.5	14.0	16.5
11	1.0	0.0	0.5	5.0	2.5	3.5	10.5	6.0	8.5	19.5	14.0	16.5
12	0.5	0.0	0.0	5.0	4.0	4.5	10.0	6.0	8.0	19.5	15.0	17.0
13	0.5	0.0	0.0	7.5	5.0	6.0	9.0	5.5	7.0	18.5	15.5	17.0
14	1.0	0.0	0.0	5.5	2.5	4.0	11.0	4.5	8.5	18.5	15.0	17.0
15	1.5	0.0	0.5	6.0	2.5	4.0	8.5	7.5	8.0	19.5	15.5	17.5
16	3.0	1.0	2.0	5.5	2.5	4.0	12.0	7.0	9.0	19.0	16.0	17.5
17	3.5	2.5	3.0	8.0	4.5	6.0	14.0	8.0	11.0	20.0	15.5	17.5
18	3.5	2.5	3.0	8.0	4.5	6.0	13.0	9.0	11.5	18.0	16.5	17.0
19	5.0	3.0	4.0	7.5	5.5	6.5	13.0	10.5	12.0	21.5	16.0	18.5
20	4.5	2.5	3.5	7.0	5.5	6.0	12.5	9.5	11.0	23.0	17.5	20.5
21	5.0	2.0	3.5	6.5	3.5	5.0	13.0	8.0	10.5	22.0	19.5	20.5
22	4.0	2.0	4.0	7.0	5.0	6.0	14.0	7.0	10.5	23.0	19.0	21.0
23	5.0	4.0	4.5	9.5	5.0	7.0	15.5	8.5	12.0	24.0	19.0	21.5
24	6.0	5.0	5.5	7.5	6.0	6.5	14.0	11.5	12.5	25.5	20.5	23.0
25	5.5	5.0	5.0	9.0	6.0	7.0	15.0	12.5	13.5	23.5	18.0	20.5
26	5.5	3.5	4.5	7.5	4.0	6.5	14.5	10.5	12.5	18.5	16.5	17.5
27	5.5	3.0	4.0	6.5	2.5	4.5	13.5	9.5	11.5	21.5	17.0	19.0
28	5.5	2.5	4.0	6.0	2.0	4.0	14.0	9.0	12.0	23.5	17.0	20.5
29	---	---	---	6.0	4.0	5.0	12.5	10.5	11.5	23.5	18.0	20.5
30	---	---	---	7.0	5.0	6.0	15.5	9.5	12.0	21.0	18.5	19.0
31	---	---	---	7.0	3.0	5.0	---	---	---	21.0	18.0	19.5
MONTH	6.0	0.0	2.5	9.5	0.5	5.0	15.5	1.5	9.0	25.5	10.0	17.0

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	21.0	19.0	20.0	24.0	19.0	21.5	25.5	21.5	23.5	20.0	18.0	19.0
2	22.5	19.0	20.5	24.5	19.5	22.0	27.0	22.5	24.5	20.5	18.0	19.0
3	21.5	18.5	20.0	25.0	21.0	22.5	27.5	23.0	25.5	20.5	17.5	19.0
4	22.0	17.5	19.5	25.0	20.0	22.5	26.0	23.0	24.0	19.5	16.5	18.0
5	19.5	17.5	18.5	25.0	20.5	22.5	26.0	22.0	24.0	21.0	16.0	18.5
6	18.5	16.5	17.5	23.0	21.0	22.0	24.0	21.0	23.0	20.0	18.0	19.0
7	18.5	16.0	17.5	24.0	21.0	22.0	21.0	19.0	19.5	20.5	16.5	19.0
8	17.5	15.5	16.5	24.0	21.0	22.5	21.5	18.0	19.5	21.5	18.0	19.5
9	19.5	15.0	17.0	24.0	21.5	22.5	23.0	18.0	20.5	20.5	18.0	19.0
10	18.5	15.5	17.0	25.0	21.0	23.0	23.0	19.0	21.5	20.0	15.0	17.5
11	20.0	15.5	18.0	25.0	22.0	23.5	23.0	20.5	22.0	17.5	15.5	16.5
12	18.0	16.0	16.5	24.0	22.5	23.0	25.0	20.5	22.5	18.5	16.5	17.5
13	20.0	16.0	18.0	22.5	21.0	22.0	25.5	21.5	23.0	17.5	14.5	16.0
14	22.0	18.0	20.0	23.5	22.0	22.5	25.5	22.0	23.5	17.0	13.5	15.0
15	21.0	18.5	19.5	23.5	22.0	22.5	25.0	21.5	23.0	16.0	12.5	14.5
16	20.5	18.5	19.0	25.0	22.5	23.5	23.0	20.5	21.5	15.0	13.0	14.0
17	22.5	18.5	20.0	26.5	23.5	25.0	21.5	20.0	20.5	17.5	13.0	15.0
18	24.0	19.5	21.5	28.5	24.5	26.5	24.0	19.5	22.0	17.0	16.0	16.0
19	24.5	20.5	22.5	27.5	25.0	26.5	23.5	20.0	22.0	17.5	16.0	16.5
20	24.0	20.5	22.0	27.0	25.0	26.0	24.5	21.0	22.5	20.0	17.0	18.0
21	23.5	19.5	21.5	27.0	24.5	25.5	23.0	20.0	21.5	19.0	17.5	18.0
22	23.5	18.5	21.0	26.5	24.0	25.0	24.0	21.0	22.0	19.5	16.0	18.0
23	24.0	18.5	21.5	24.5	21.5	23.0	23.0	19.0	21.5	18.0	16.0	16.5
24	25.0	21.5	23.0	25.0	21.5	23.0	21.5	19.5	20.5	16.0	15.5	16.0
25	24.5	21.5	23.0	23.5	21.0	21.5	23.0	20.0	21.5	16.0	15.0	15.0
26	22.5	20.5	21.5	22.5	19.0	21.0	25.0	22.0	23.0	16.5	14.5	15.5
27	21.0	19.0	20.0	22.5	18.5	20.5	25.0	21.5	23.5	18.0	16.0	16.5
28	21.0	18.5	19.5	23.0	19.0	21.0	24.0	20.5	22.5	17.5	15.0	16.5
29	22.0	20.0	21.0	23.5	19.5	21.5	23.0	20.0	22.0	17.5	14.5	16.0
30	24.0	20.0	22.0	23.5	19.0	21.5	22.5	20.5	21.5	17.0	14.5	16.0
31	---	---	---	25.0	20.5	22.5	21.0	19.0	19.5	---	---	---
MONTH	25.0	15.0	20.0	28.5	18.5	23.0	27.5	18.0	22.0	21.5	12.5	17.0

01398500 NORTH BRANCH RARITAN RIVER NEAR FAR HILLS, N. J.

LOCATION.--Lat 40°42'30", long 74°38'11", Somerset County, at bridge on unnamed road, 0.2 mi (0.3 km) downstream from gaging station at Ravine Lake Dam.

DRAINAGE AREA.--26.2 mi² (67.9 km²).

PERIOD OF RECORD.--Chemical analyses: Water years 1963-65, 70-72 (partial-record station), October 1965 to September 1969, October 1972 to September 1975.

REMARKS.--Miscellaneous storm sediment samples collected during water years 1967-73.

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	TEMPERATURE (DEG C)	SPECIFIC CONDUCTANCE (MICROMHOS)	pH (UNITS)	DISSOLVED OXYGEN (MG/L)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L)	IMMEDIATE COLIFORM (COL. PER 100 ML)	FECAL COLIFORM (EC BROTH) (MPN)	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)	TURBIDITY (JTU)
OCT.												
17...	1030	72	--	136	7.6	10.4	4.5	2600	--	4400	7050	--
NOV.												
21...	1130	63	6.0	195	7.8	12.2	1.4	790	--	80	140	--
MAR.												
18...	1105	66	5.0	187	7.9	12.4	1.3	--	33	4	--	3
APR.												
22...	1230	43	10.1	146	8.4	11.6	1.2	--	7	6	--	2
MAY												
13...	1110	166	16.7	290	7.9	10.3	3.3	--	240	160	--	2
JUNE												
12...	1145	299	15.0	140	8.1	10.0	2.1	--	920	140	--	3
JULY												
09...	1100	30	21.2	140	7.6	8.4	1.6	--	14	20	--	2
AUG.												
14...	1610	37	24.4	159	--	9.0	1.8	--	20	60	--	1
SEP.												
09...	1120	36	--	166	7.8	--	1.7	--	--	10	--	1

DATE	COLOR (PLATINUM-COBALT UNITS)	TOTAL ORGANIC NITROGEN (N) (MG/L)	AMMONIA NITROGEN (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL ORTHO PHOSPHORUS (P) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)	ALKALINITY AS CACO3 (MG/L)	CARBONATE (CO3) (MG/L)
OCT.												
17...	--	--	--	--	--	--	--	--	--	--	--	--
NOV.												
21...	--	.14	.22	.01	.65	.36	1.0	.12	.07	4.4	--	--
MAR.												
18...	4	.08	.11	.01	.85	.19	1.1	.06	.04	1.9	30	0
APR.												
22...	4	.00	.02	.02	.74	.02	.78	.07	.03	2.5	31	0
MAY												
13...	2	.24	.08	.02	.46	.32	.80	.06	.02	3.3	31	0
JUNE												
12...	11	.25	.08	.03	.71	.33	1.1	.08	.04	4.0	30	0
JULY												
09...	2	.20	.04	.03	.77	.24	1.0	.09	.03	2.3	39	0
AUG.												
14...	3	.19	.00	.01	.64	.19	.84	.03	.03	2.2	36	--
SEP.												
09...	1	.32	.02	.04	.48	.34	.86	.03	.01	3.0	39	0

DATE	BICARBONATE (HCO3) (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	TOTAL NONFILTRABLE RESIDUE (MG/L)
OCT.												
17...	--	--	--	--	--	--	--	--	--	--	--	--
NOV.												
21...	--	--	--	--	--	--	--	--	--	--	--	--
MAR.												
18...	36	.7	49	19	15	2.8	15	1.1	20	19	125	5
APR.												
22...	38	.2	47	16	11	4.7	5.3	.6	12	16	94	0
MAY												
13...	38	.8	46	15	12	3.9	7.2	1.0	11	17	91	11
JUNE												
12...	36	.5	46	16	11	4.5	6.1	1.0	7.8	15	89	9
JULY												
09...	48	1.9	52	13	13	4.8	7.3	1.2	10	17	92	3
AUG.												
14...	44	--	54	18	13	5.2	6.9	1.0	8.1	15	94	2
SEP.												
09...	48	1.2	56	17	14	5.1	6.7	1.3	9.4	15	120	7

01400000 NORTH BRANCH RARITAN RIVER NEAR RARITAN, N. J.

LOCATION.--Lat 40°34'10", long 74°40'45", Somerset County, 400 ft (122 m) downstream from gaging station 1.4 mi (2.3 km) upstream from confluence with South Branch, and 2 mi (3.2 km) west of Raritan.

DRAINAGE AREA.--190 mi² (492 km²).

PERIOD OF RECORD.--Chemical analyses: Water years 1963-65, 70-72 (partial-record station), October 1965 to September 1969, October 1972 to September 1975.

REMARKS.--Miscellaneous storm sediment samples collected during water years 1967-73.

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	TEMPERATURE (DEG C)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	DISSOLVED OXYGEN (MG/L)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L)	IMMEDIATE COLIFORM (COL. PER 100 ML)	FECAL COLIFORM (EC BROTH) (MPN)	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)	TURBIDITY (JTU)
OCT. 17...	0930	992	11.3	146	7.6	9.4	3.6	8500	--	6320	6200	--
NOV. 21...	1040	206	6.0	196	7.8	11.4	1.6	1200	--	440	750	--
MAR. 18...	1010	357	4.9	198	7.7	13.0	1.7	--	170	126	--	4
APR. 22...	1030	200	9.0	173	8.0	12.0	1.3	--	13	8	--	2
MAY 13...	0915	1320	15.9	135	7.2	8.7	6.3	--	>2400	8450	--	--
JUNE 12...	1030	1100	14.0	154	7.6	9.3	4.0	--	54000	30000	--	30
JULY 09...	1010	146	22.2	183	7.4	7.0	2.6	--	490	220	--	5
AUG. 14...	1345	108	25.2	194	--	--	2.6	--	110	120	--	1
SEP. 09...	1030	124	17.9	212	7.5	8.7	2.0	--	--	144	--	1

DATE	COLOR (PLATINUM-COBALT UNITS)	TOTAL ORGANIC NITROGEN (N) (MG/L)	AMMONIA NITROGEN (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL ORTHO PHOSPHORUS (P) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)	ALKALINITY AS CACO3 (MG/L)	CARBONATE (CO3) (MG/L)
OCT. 17...	--	--	--	--	--	--	--	--	--	--	--	--
NOV. 21...	--	.08	.15	.00	.89	.23	1.1	.08	.06	4.4	--	--
MAR. 18...	4	.20	.04	.01	.86	.24	1.1	.05	.03	.9	35	0
APR. 22...	7	.26	.00	.01	.47	.26	.74	.05	.03	7.9	44	0
MAY 13...	34	.72	.05	.01	.48	.77	1.3	.15	.04	8.0	34	0
JUNE 12...	36	.55	.02	.02	.76	.57	1.4	.21	.08	7.9	36	0
JULY 09...	2	.14	.03	.01	.99	.17	1.2	.08	.04	3.2	55	0
AUG. 14...	7	.21	.00	.01	.45	.21	.67	.03	.03	4.6	54	--
SEP. 09...	4	.17	.00	.03	.71	.17	.91	.05	.02	--	57	0

DATE	BICARBONATE (HCO3) (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	TOTAL NONFILTRABLE RESIDUE (MG/L)
OCT. 17...	--	--	--	--	--	--	--	--	--	--	--	--
NOV. 21...	--	--	--	--	--	--	--	--	--	--	--	--
MAR. 18...	43	1.4	56	21	15	4.5	13	1.3	20	23	129	10
APR. 22...	54	.1	70	25	18	6.0	8.0	1.2	12	17	111	8
MAY 13...	41	4.1	43	9	11	3.7	7.2	1.9	9.9	15	97	194
JUNE 12...	44	1.8	52	16	13	4.8	7.4	1.8	8.2	17	98	81
JULY 09...	67	4.3	71	16	17	6.9	8.9	1.7	12	21	123	12
AUG. 14...	66	--	74	20	18	7.0	8.5	1.3	9.9	17	121	6
SEP. 09...	69	3.5	78	21	18	8.0	9.0	1.5	11	19	151	3

RARITAN RIVER BASIN

01400510 RARITAN RIVER NEAR MANVILLE, N. J.

LOCATION.--Lat 40°32'34", long 74°34'03", Somerset County, about 1.4 mi (2.3 km) downstream from gaging station, and 400 ft (122 m) above confluence with Millstone River, near Manville.

DRAINAGE AREA.--497 mi² (1,287 km²).

PERIOD OF RECORD.--Chemical analyses: Water years 1963-65 (partial-record station), January 1966 to September 1975. Water temperatures: November 1967 to January 1968, October 1968 to September 1974.

REMARKS.--Prior to 1966 records collected at gaging station (01400500). Records of discharge are given for 01400500 Raritan River at Manville, N.J.

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	TEMPERATURE (DEG C)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	DISSOLVED OXYGEN (MG/L)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L)	IMMEDIATE COLIFORM (COL. PER 100 ML)	FECAL COLIFORM (FC BROTH) (MPN)	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)	TURBIDITY (JTU)
OCT. 17...	0915	E1950	12.0	161	6.8	9.8	4.5	27500	--	13600	6850	--
NOV. 20...	0940	E646	7.0	275	7.9	11.2	1.7	1700	--	200	1450	--
MAR. 26...	1015	E1390	8.0	171	7.7	11.4	1.8	--	240	144	--	7
APR. 09...	0940	E731	8.5	100	8.5	11.1	3.7	--	33	28	--	4
MAY 14...	1000	E3910	16.5	129	7.5	8.2	7.2	--	>2400	29400	--	150
JUNE 05...	0940	E700	19.5	205	7.6	8.0	3.2	--	>2400	1300	--	6
JULY 10...	0810	E619	23.0	183	7.9	8.0	1.4	--	1700	1300	--	10
AUG. 07...	1000	E945	21.0	200	7.4	8.4	2.7	--	1300	--	--	5
SEP. 17...	1015	E250	14.0	243	7.5	10.4	--	--	80	205	--	11

DATE	COLOR (PLATINUM-COBALT UNITS)	TOTAL ORGANIC NITROGEN (N) (MG/L)	AMMONIA NITROGEN (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL ORTHO PHOSPHORUS (P) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)	ALKALINITY AS CACO3 (MG/L)	CARBONATE (CO3) (MG/L)
OCT. 17...	--	--	--	--	--	--	--	--	--	--	--	--
NOV. 20...	--	.06	.10	.00	1.1	.16	1.3	.08	.05	4.6	--	--
MAR. 26...	12	.00	.24	.00	1.2	.24	1.4	.06	.02	3.0	32	0
APR. 09...	2	.19	.02	.01	.94	.21	1.2	.05	.02	4.2	41	0
MAY 14...	44	1.1	.12	.05	.75	1.2	2.0	.43	.06	15	27	0
JUNE 05...	13	--	.05	.10	1.4	--	--	.14	--	5.6	47	0
JULY 10...	3	1.1	.03	.01	.93	1.3	2.2	.11	.05	5.7	53	0
AUG. 07...	3	.39	.03	.01	.05	.42	1.3	.05	.05	3.0	51	0
SEP. 17...	3	1.4	1.1	.19	1.2	2.5	3.9	.56	.50	3.6	84	0

DATE	BICARBONATE (HCO3) (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	HARDNESS (CA+MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	TOTAL NONFILTRABLE RESIDUE (MG/L)
OCT. 17...	--	--	--	--	--	--	--	--	--	--	--	--
NOV. 20...	--	--	--	--	--	--	--	--	--	--	--	--
MAR. 26...	39	1.2	56	24	14	5.2	8.1	1.6	14	24	176	10
APR. 09...	50	.3	65	24	16	6.0	9.0	1.6	12	25	115	10
MAY 14...	33	1.7	51	24	14	3.9	6.0	2.9	7.5	18	96	300
JUNE 05...	57	2.3	75	28	19	6.6	9.0	2.1	12	20	132	50
JULY 10...	65	1.3	77	24	19	7.2	9.0	1.9	11	27	141	29
AUG. 07...	62	3.9	80	29	21	6.6	6.7	1.5	9.1	20	178	25
SEP. 17...	103	5.2	100	16	24	9.8	62	2.0	76	50	374	115

RARITAN RIVER BASIN

01400730 MILLSTONE RIVER AT PLAINSBORO, N. J.

LOCATION.--Lat 40°19'27", long 74°36'51", Mercer County, 30 ft (9 m) downstream from gaging station, at Penn Central Railroad bridge, 130 ft (39 m) downstream from Cranbury Brook, and 0.9 mi (1.4 km) southwest of Plainsboro.

DRAINAGE AREA.--65.8 mi² (170.4 km²).

REMARKS.--Miscellaneous storm sediment samples collected during water years 1974-75.

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	TEMPER-ATURE (DEG C)	INSTAN-TANEOUS DIS-CHARGE (CFS)	SUS-PENDED SEDI-MENT (MG/L)	SUS-PENDED SEDI-MENT DIS-CHARGE (T/DAY)
OCT.					
16...	1030	13.8	40	7	.76
16...	1615	13.7	80	22	4.8
NOV.					
13...	1120	--	56	18	2.7
DEC.					
02...	1025	5.6	110	75	22
02...	1410	6.4	133	79	28
16...	1030	6.5	82	18	4.0
FEB.					
14...	1545	2.5	72	16	3.1
25...	1120	6.8	704	63	120
25...	1425	7.4	688	50	93
MAR.					
20...	1000	9.0	250	30	20
20...	1300	8.8	286	33	25
APR.					
03...	0955	11.2	102	30	8.3
03...	1210	11.1	115	37	11
03...	1415	11.8	124	43	14
17...	1455	15.1	72	48	9.3
MAY					
05...	1005	12.8	224	22	13
05...	1045	13.1	232	24	15
05...	1120	13.6	238	22	14
05...	1205	14.2	253	20	14
05...	1230	14.6	256	20	14
05...	1300	15.0	262	18	13
05...	1340	15.4	268	16	12
05...	1420	15.5	274	16	12
05...	1455	15.6	280	15	11
05...	1535	15.7	286	14	11
16...	1100	19.3	224	13	7.9
JUNE					
06...	1055	18.2	133	92	33
06...	1145	20.2	142	79	30
06...	1300	21.0	147	69	27
06...	1400	21.0	147	69	27
JULY					
14...	0805	--	616	49	81
14...	1100	23.5	680	39	72
14...	1130	23.5	720	37	72
14...	1145	24.0	752	50	102
15...	0945	--	620	22	37

01401000 STONY BROOK AT PRINCETON, N. J.

LOCATION.--Lat 40°19'59", long 74°40'56", Mercer County, at bridge at gaging station on U.S. Highway 206, 1.6 mi (2.6 km) southwest of Princeton, and 4.0 mi (6.4 km) upstream from Lake Carnegie.

DRAINAGE AREA.--44.5 mi² (115 km²).

PERIOD OF RECORD.--Chemical analyses: Water years 1959-65, 70-72 (partial-record station), October 1966 to September 1968, October 1972 to September 1975.
Water temperatures: October 1956 to September 1962, October 1963 to September 1964, October 1965 to June 1970.
Sediment records: January 1956 to June 1970.

REMARKS.--Miscellaneous storm sediment samples collected during water years 1971-73.

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	TEMPERATURE (DEG C)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	DISSOLVED OXYGEN (MG/L)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L)	IMMEDIATE COLIFORM (COL. PER 100 ML)	FECAL COLIFORM (EC BROTH) (MPN)	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)	TURBIDITY (JTU)
OCT.												
17...	0840	E214	11.4	145	7.6	9.6	4.7	--	--	5760	11000	--
NOV.												
21...	1000	42	7.0	212	7.8	11.1	1.4	600	--	195	320	--
MAR.												
10...	0850	75	4.0	169	8.1	13.0	1.7	--	70	60	--	5
APR.												
22...	0830	17	7.0	199	7.1	9.6	2.3	--	33	12	--	2
MAY												
09...	0900	60	13.3	159	7.7	10.9	>9.2	--	350	200	--	4
JUNE												
12...	0840	83	15.3	170	7.3	8.9	3.0	--	>24000	7900	--	8
JULY												
09...	0820	E15	22.7	189	6.6	5.1	1.0	--	800	360	--	3
AUG.												
14...	1140	6.4	24.3	239	6.7	8.9	2.8	--	170	216	--	1
SEP.												
09...	0915	5.4	18.0	254	6.4	6.7	1.4	--	--	68	--	2

DATE	COLOR (PLATINUM-COBALT UNITS)	TOTAL ORGANIC NITROGEN (N) (MG/L)	AMMONIA NITROGEN (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL ORTHO PHOSPHORUS (P) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)	ALKALINITY AS CACO3 (MG/L)	CARBONATE (CO3) (MG/L)
OCT.												
17...	--	--	--	--	--	--	--	--	--	--	--	--
NOV.												
21...	--	.14	.13	.00	.64	.27	.91	.07	.04	5.5	--	--
MAR.												
10...	6	.30	.01	.01	.61	.31	.93	.05	.02	1.4	22	0
APR.												
22...	6	.31	.01	.01	.14	.32	.47	.03	.02	6.7	39	0
MAY												
09...	17	.23	.03	.04	.40	.26	.70	.05	.02	7.2	31	0
JUNE												
12...	14	.37	.00	.01	.88	.37	1.3	.15	.05	6.6	31	0
JULY												
09...	3	.28	.03	.01	.24	.31	.56	.06	.03	5.9	--	0
AUG.												
14...	5	.26	.00	.02	.16	.26	.44	.03	.03	3.8	--	0
SEP.												
09...	5	.47	.03	.01	.07	.50	.58	.05	.03	6.4	--	0

DATE	BICARBONATE (HCO3) (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	TOTAL NONFILTRABLE RESIDUE (MG/L)
OCT.												
17...	--	--	--	--	--	--	--	--	--	--	--	--
NOV.												
21...	--	--	--	--	--	--	--	--	--	--	--	--
MAR.												
10...	27	.3	48	26	12	4.5	9.4	2.0	14	30	110	9
APR.												
22...	48	6.1	71	32	17	7.0	11	1.7	15	30	122	0
MAY												
09...	38	1.2	59	28	15	5.2	8.2	1.5	9.8	27	101	14
JUNE												
12...	38	3.0	40	9	9.5	3.9	5.9	1.4	11	24	115	20
JULY												
09...	--	--	67	--	15	7.1	13	2.5	18	27	121	15
AUG.												
14...	--	--	78	--	18	8.0	14	2.6	15	27	153	8
SEP.												
09...	--	--	82	--	19	8.5	15	2.5	18	25	160	9

01402590 ROYCE BROOK TRIBUTARY AT FRANKFORT, N. J.

LOCATION.--Lat 40°30'21", long 74°40'24", Somerset County, at gaging station, 20 ft (6 m) upstream from bridge on Beekman Lane, 0.6 mi (1.0 km) east of Frankfort, and 1.6 mi (2.6 km) upstream from mouth.

DRAINAGE AREA.--0.29 mi² (0.75 km²).

REMARKS.--Miscellaneous storm sediment samples collected during water years 1974-75.

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	TEMPERATURE (DEG C)	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)
OCT.					
16...	1150	11.6	10	280	7.6
16...	1215	11.7	11	306	9.1
16...	1240	11.8	12	203	6.6
16...	1300	11.8	11	143	4.2
16...	1450	12.3	5.6	52	.79
16...	1510	12.3	5.1	53	.73
16...	1525	12.3	5.0	50	.67
NOV.					
12...	1500	13.4	.14	9	.00
13...	1100	11.0	.76	32	.07
13...	1300	11.0	.73	25	.05
14...	1005	8.6	.37	7	.01
14...	1955	12.1	.33	8	.01
DEC.					
02...	1135	5.9	5.0	45	.61
16...	1140	5.5	7.4	236	4.7
16...	1510	6.3	26	86	6.0
16...	1540	6.1	22	69	4.1
16...	1555	6.0	20	70	3.8
16...	1610	--	18	58	2.8
16...	1635	6.0	16	55	2.4
JAN.					
10...	0925	3.5	.70	7	.01
MAR.					
20...	1125	8.2	3.1	20	.17
20...	1700	8.4	2.9	22	.17
APR.					
03...	1100	11.3	1.1	40	.12
03...	1315	10.5	2.9	77	.60
03...	1505	--	2.4	37	.24

01402600 ROYCE BROOK TRIBUTARY NEAR BELLE MEAD, N. J.

LOCATION.--Lat 40°29'58", long 74°39'05", Somerset County, 25 ft (7.6 m) downstream from gaging station, at bridge on State Highway 514, 1175 ft (362 m) upstream from mouth, and 2.0 mi (3.2 km) north of Belle Mead.

DRAINAGE AREA.--1.20 mi² (3.11 km²).

REMARKS.--Miscellaneous storm sediment samples collected during water years 1974-75.

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	TEMPER-ATURE (DEG C)	INSTAN-TANEOUS DIS-CHARGE (CFS)	SUS-PENDED SEDI-MENT (MG/L)	SUS-PENDED SEDI-MENT DIS-CHARGE (T/DAY)
OCT.					
16...	1205	11.5	76	459	94
16...	1220	11.5	79	392	84
16...	1250	11.6	80	335	72
16...	1305	11.6	78	284	60
16...	1500	12.2	44	98	12
16...	1515	12.2	36	83	8.1
16...	1530	12.3	39	86	9.1
NOV.					
12...	1905	12.7	.31	71	.06
13...	1045	11.0	4.0	27	.29
13...	1245	11.0	3.5	31	.29
14...	1000	8.5	2.0	10	.05
14...	1605	11.1	1.9	6	.03
DEC.					
02...	1125	7.7	34	78	7.2
16...	1130	6.8	45	599	73
16...	1505	6.4	154	380	158
16...	1520	6.4	142	463	178
16...	1550	6.3	125	290	98
16...	1600	--	116	244	76
16...	1625	--	101	197	54
JAN.					
10...	0915	4.2	3.4	16	.15
MAR.					
20...	1115	8.8	17	35	1.6
20...	1210	8.6	14	37	1.4
APR.					
03...	1045	11.0	6.5	300	5.3
03...	1300	10.5	16	431	19
03...	1455	10.1	12	206	6.7

01402000 MILLSTONE RIVER NEAR MANVILLE, N. J.

LOCATION.--Lat 40°32'33", long 74°34'03", Somerset County, 200 ft (61 m) above confluence with Raritan River, about 6.4 mi (10.2 km) downstream from gaging station, near Manville.

DRAINAGE AREA.--287 mi² (743 km²).

PERIOD OF RECORD.--Chemical analyses: October 1967 to September 1975.
Water temperatures: October 1968 to September 1974.

REMARKS.--Records of discharge are given for 01402000 Millstone River at Blackwells Mills, N.J.

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	TEMPERATURE (DEG C)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	DISSOLVED OXYGEN (MG/L)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L)	IMMEDIATE COLIFORM (COL. PER 100 ML)	FECAL COLIFORM (EC BROTH) (MPN)	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)	TURBIDITY (JTU)
OCT. 17...	0900	E1700	13.0	170	7.1	8.2	5.0	25500	--	8800	14000	--
NOV. 20...	0930	E147	7.5	220	7.6	9.2	2.4	1790	--	100	100	--
MAR. 26...	1025	E630	9.0	160	7.1	10.4	3.1	--	920	330	--	15
APR. 09...	0915	E208	9.0	181	7.3	11.2	4.2	--	17	50	--	9
MAY 14...	0900	E2630	17.0	93	7.7	7.7	7.0	--	240	23000	--	130
JUNE 05...	0910	E279	19.9	166	6.9	5.7	3.6	--	<2000	1050	--	6
JULY 10...	0825	E220	27.5	145	6.9	5.8	3.6	--	16000	27200	--	180
AUG. 07...	0900	E172	22.5	200	6.3	5.8	2.8	--	1700	--	--	5
SEP. 17...	0930	E122	14.5	249	7.4	7.2	--	--	20	50	--	11

DATE	COLOR (PLATINUM-COBALT UNITS)	TOTAL ORGANIC NITROGEN (N) (MG/L)	AMMONIA NITROGEN (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL ORTHO PHOSPHORUS (P) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)	ALKALINITY AS CACO3 (MG/L)	CARBONATE (CO3) (MG/L)
OCT. 17...	--	--	--	--	--	--	--	--	--	--	--	--
NOV. 20...	--	.16	.52	.04	1.7	.68	2.4	.30	.22	5.8	--	--
MAR. 26...	16	.33	.24	.01	1.5	.57	2.1	.16	.06	6.3	17	0
APR. 09...	9	.30	.29	.03	1.7	.59	2.3	.19	.09	5.0	24	0
MAY 14...	84	1.0	.10	.02	.81	1.1	1.9	.30	.09	12	11	0
JUNE 05...	6	1.4	.21	.07	1.5	1.6	3.2	.27	.15	16	25	0
JULY 10...	80	.00	.53	.14	2.1	.50	2.7	.47	.17	12	22	0
AUG. 07...	4	.51	.09	.02	1.1	.60	1.7	.09	.09	6.0	--	0
SEP. 17...	2	.64	.21	.07	2.2	.85	3.2	.20	.19	4.7	35	0

DATE	BICARBONATE (HCO3) (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	TOTAL NONFILTRABLE RESIDUE (MG/L)
OCT. 17...	--	--	--	--	--	--	--	--	--	--	--	--
NOV. 20...	--	--	--	--	--	--	--	--	--	--	--	--
MAR. 26...	21	2.7	32	14	8.4	2.6	6.7	1.2	14	14	115	35
APR. 09...	29	2.3	53	29	13	5.0	10	2.2	14	30	105	13
MAY 14...	14	.4	31	19	8.1	2.5	5.0	2.6	6.5	17	85	96
JUNE 05...	31	6.2	52	26	13	4.7	9.2	2.7	14	23	118	24
JULY 10...	27	5.4	49	27	12	4.7	8.8	3.7	12	25	126	--
AUG. 07...	--	--	68	--	16	6.9	9.0	2.3	11	24	130	16
SEP. 17...	43	2.7	75	40	18	7.4	12	3.3	16	30	156	24

01404100 RARITAN RIVER NEAR SOUTH BOUND BROOK, N. J.
(National stream-quality accounting network and Pesticide program station)

LOCATION.--Lat 40°30'47", long 74°32'24", Somerset County, water-quality recorder on right bank, 0.1 mi (0.2 km) upstream from Fieldville Dam, 0.3 mi (0.5 km) upstream from south crossing of Interstate Highway 287, and 1.5 mi (2.4 km) southeast of South Bround Brook.

DRAINAGE AREA.--862 mi² (2,232 km²).

PERIOD OF RECORD.--Chemical analyses: August 1966 to September 1975.
Water temperatures: May 1969 to September 1975.

EXTREMES.--1974-75:
Specific conductance: Maximum, 638 micromhos Sept. 11; minimum, 82 micromhos July 21.
Dissolved oxygen: Minimum, 4.2 mg/l May 30.
Water temperatures: Maximum, 30.0°C Aug. 3.
pH: Maximum, 10.2 Apr. 17, 20; minimum, 5.7 July 17.
Period of record:
Specific conductance: Maximum, 1,370 micromhos Oct. 20, 1970; minimum, 48 micromhos Mar. 3, 1972.
Dissolved oxygen: Maximum, 15.5 mg/l April 22, 1975; minimum, 0.0 mg/l Oct. 5, 1971.
Water temperatures: Maximum, 32.0°C July 9, 1974; minimum, freezing point on several days during winter months.
pH: Maximum, 12.4 Nov. 12, 1969; minimum, 3.4 Nov. 18, 1972.

REMARKS.--Records of discharge are given for 01403060 Raritan River below Calco Dam, at Bound Brook, and 01403900 Bound Brook at Middlesex, N.J. Missing continuous water-quality records are the result of malfunction of sensor or sampling mechanism.

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	AIR TEMPERATURE (DEG C)	TEMPERATURE (DEG C)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	DISSOLVED OXYGEN (MG/L)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L)	IMMEDIATE COLIFORM (COL. PER 100 ML)	FECAL COLIFORM (EC BROTH) (MPN)
OCT.										
17...	0945	E4700	--	14.5	157	6.9	8.6	4.5	7000	--
NOV.										
20...	1015	E584	--	7.0	354	7.3	10.4	4.8	1900	--
DEC.										
31...	1020	E759	--	3.9	330	7.6	12.4	--	--	--
JAN.										
15...	0930	E2460	--	2.1	227	8.0	12.9	2.7	1400	--
FEB.										
21...	1020	E2060	6.0	4.2	270	7.9	--	2.2	320	--
MAR.										
19...	0945	E1250	--	7.6	277	7.8	11.6	1.8	--	220
APR.										
11...	0920	E871	--	8.4	310	8.1	10.8	3.8	--	70
MAY										
27...	1300	E623	--	21.7	286	7.6	9.2	5.0	--	350
JUNE										
24...	0930	E791	--	24.1	263	7.3	9.2	--	--	350
27...	1030	E685	--	23.2	264	7.0	6.6	4.0	--	--
JULY										
28...	1030	E1860	--	22.0	149	7.2	8.4	1.7	--	>2400
AUG.										
12...	1330	E521	--	24.5	318	7.6	8.5	4.8	--	330
SEP.										
18...	1230	E306	--	18.0	543	6.5	7.8	3.7	--	350

DATE	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)	TURBIDITY (JTU)	COLOR (PLATINUM-COBALT UNITS)	TOTAL ORGANIC NITROGEN (N) (MG/L)	AMMONIA NITROGEN (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)
OCT.										
17...	10000	10000	20	--	1.0	.48	.04	1.4	1.5	2.9
NOV.										
20...	50	0	3	--	.00	1.4	.04	1.4	1.4	2.8
DEC.										
31...	--	--	6	--	.80	2.0	.04	1.6	2.8	4.4
JAN.										
15...	760	320	20	--	.32	.78	.02	1.6	1.1	2.7
FEB.										
21...	200	150	8	--	.27	.83	.01	1.4	1.1	2.5
MAR.										
19...	66	24	5	--	.20	1.1	.02	1.2	1.3	2.5
APR.										
11...	50	34	4	8	.60	1.3	.02	1.1	1.9	3.0
MAY										
27...	120	20	5	10	.60	1.2	.14	1.4	1.8	3.3
JUNE										
24...	350	90	--	--	--	--	--	--	--	--
27...	100	50	9	17	.50	1.1	.10	1.2	1.6	2.9
JULY										
28...	--	620	12	23	.62	.26	.09	1.1	.88	2.1
AUG.										
12...	92	284	3	3	.49	.08	.01	2.9	.57	3.5
SEP.										
18...	236	--	5	30	1.7	3.3	.14	1.9	5.0	7.0

01404100 RARITAN RIVER NEAR SOUTH BOUND BROOK, N. J.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TOTAL PHOS-PHORUS (P) (MG/L)	TOTAL ORTHO PHOS-PHORUS (P) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	CAR-BONATE (CO3) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)
OCT. 17...	.49	.10	16	24	0	29	5.0	55	31	13
NOV. 20...	.25	.18	6.3	41	0	50	4.0	88	47	23
DEC. 31...	.23	.16	--	38	0	47	1.9	92	54	24
JAN. 15...	.15	.08	4.7	25	0	30	.5	69	44	19
FEB. 21...	.11	.05	3.6	30	--	37	.7	56	26	15
MAR. 19...	.13	.07	4.7	34	0	41	1.0	74	41	19
APR. 11...	.17	.08	5.6	43	--	52	.7	87	44	24
MAY 27...	.20	.13	5.8	44	0	54	2.2	61	16	15
JUNE 24...	--	--	7.5	--	--	--	--	--	--	--
27...	.21	.10	5.7	45	0	55	8.8	75	30	19
JULY 28...	.17	.10	8.1	39	0	47	4.7	63	24	17
AUG. 12...	.17	.14	5.8	37	0	45	1.8	93	56	24
SEP. 18...	.23	.21	7.3	51	0	62	31	130	77	37

DATE	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	TOTAL NON-FILT-RABLE RESIDUE (MG/L)
OCT. 17...	5.4	9.5	3.2	11	27	.2	6.8	118	90	--
NOV. 20...	7.4	25	4.7	31	61	.1	11	214	188	--
DEC. 31...	7.8	30	3.2	33	63	.2	12	210	197	--
JAN. 15...	5.2	15	2.1	18	40	.2	11	155	125	--
FEB. 21...	4.6	16	2.2	27	41	.1	8.5	140	133	--
MAR. 19...	6.5	19	2.1	30	40	.1	8.4	157	145	--
APR. 11...	6.6	22	2.3	26	62	.3	8.1	181	177	13
MAY 27...	5.6	13	1.3	27	44	.2	11	173	144	4
JUNE 24...	--	--	--	--	--	--	--	--	--	--
27...	6.6	18	3.2	24	39	.2	11	150	148	25
JULY 28...	5.0	8.5	2.2	12	23	.1	11	120	102	26
AUG. 12...	8.0	21	3.2	30	48	.2	8.5	198	165	10
SEP. 18...	8.5	46	5.5	62	83	.1	7.0	294	280	14

01404100 RARITAN RIVER NEAR SOUTH BOUND BROOK, N. J.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TOTAL IRON (FE) (UG/L)	DIS-SOLVED IRON (FE) (UG/L)	TOTAL MAN-GANESE (MN) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	SUS-PENDED MAN-GANESE (MN) (UG/L)	TOTAL ARSENIC (AS) (UG/L)	DIS-SOLVED ARSENIC (AS) (UG/L)	SUS-PENDED ARSENIC (AS) (UG/L)	TOTAL CAD-MIUM (CD) (UG/L)	DIS-SOLVED CAD-MIUM (CD) (UG/L)	SUS-PENDED CAD-MIUM (CD) (UG/L)
DEC. 31...	590	100	110	110	0	1	0	1	0	0	0
MAR. 19...	370	60	70	70	0	1	1	0	0	0	0
JUNE 27...	640	130	80	60	20	3	2	1	0	0	0
SEP. 18...	450	60	220	190	30	2	2	0	0	0	0

DATE	TOTAL CHRO-MIUM (CR) (UG/L)	DIS-SOLVED CHRO-MIUM (CR) (UG/L)	SUS-PENDED CHRO-MIUM (CR) (UG/L)	TOTAL COBALT (CO) (UG/L)	DIS-SOLVED COBALT (CO) (UG/L)	SUS-PENDED COBALT (CO) (UG/L)	TOTAL COPPER (CU) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)	SUS-PENDED COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)
DEC. 31...	20	10	10	0	0	0	10	0	10	4	1
MAR. 19...	<10	0	<10	0	0	0	20	0	20	7	2
JUNE 27...	10	10	0	2	0	2	20	10	10	2	1
SEP. 18...	10	0	10	0	0	0	10	10	0	11	7

DATE	SUS-PENDED LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)	DIS-SOLVED MERCURY (HG) (UG/L)	SUS-PENDED MERCURY (HG) (UG/L)	TOTAL SELE-NIUM (SE) (UG/L)	DIS-SOLVED SELE-NIUM (SE) (UG/L)	SUS-PENDED SELE-NIUM (SE) (UG/L)	TOTAL ZINC (ZN) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)	SUS-PENDED ZINC (ZN) (UG/L)
DEC. 31...	3	<.5	<.5	.0	0	0	0	20	10	10
MAR. 19...	5	<.5	<.5	.0	0	0	0	20	10	10
JUNE 27...	1	.7	<.5	.2	1	1	0	20	20	0
SEP. 18...	4	<.5	<.5	.0	0	0	0	20	20	0

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT

DATE	TIME	TEMPER-ATURE (DEG C)	INSTAN-TANEOUS DIS-CHARGE (CFS)	SUS-PENDED SEDI-MENT (MG/L)	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM
OCT., 1974					
17...	0945	14.5	E4700	47	98
NOV. 20...	1015	7.0	E584	7	100
DEC. 31...	1020	3.9	E759	8	84
JAN., 1975					
15...	0930	2.3	E2460	34	88
FEB. 21...	1020	4.2	E2060	15	85
APR. 11...	0920	8.4	E471	8	100
MAY 27...	1300	21.7	E623	3	100
JULY 28...	1030	22.0	E1060	37	94
AUG. 12...	1330	24.5	E521	6	100
SEP. 18...	1230	18.0	E386	8	100

01404100 RARITAN RIVER NEAR SOUTH BOUND BROOK, N. J.--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

PERIPHYTON

DATE	EXPOSURE LENGTH (DAYS)	BIOMASS DRY WEIGHT (G/SQ M)	BIOMASS ASH WEIGHT (G/SQ M)	CHLORO-PHYLL A (MG/SQ M)	CHLORO-PHYLL B (MG/SQ M)	BIOMASS PIGMENT RATIO	SAMPLING METHOD
FEB. 21...	37	.60	.60	.1	.2	0.0	POLY-ETHYLENE STRIP
MAR. 19...	26	7.8	7.8	1.1	.1	0.0	
JUNE 27...	31	6.6	5.7	6.5	1.3	140	

OCT. 17, 1974
0945 HOURS

IDENTIFICATION OF PHYTOPLANKTON

3,700 CELLS/ML

_ORGANISM__NAME_______________	_COMMON__NAME_______	CELLS/ML	PER_CENT
CHLOROPHYTA	GREEN ALGAE		
.CHLOROPHYCEAE			
..CHLOROCOCCALES			
...COELASTRACEAE			
....COELASTRUM		460	13
...OOCYSTACEAE			
....ANKISTRODESMUS		29	1
...SCENEDESMACEAE			
....SCENEDESMUS		120	3
..VOLVOCALES			
...CHLAMYDOMONADACEAE			
....CHLAMYDOMONAS		58	2
CHRYSOPHYTA			
.BACILLARIOPHYCEAE	DIATOMS		
..CENTRALES	CENTRIC		
...COSCINODISCACEAE			
D ....CYCLOTELLA		1,400	37
....MELOSIRA		400	11
..PENNALES	PENNATE		
...ACHNANTHACEAE			
....ACHNANTHES		29	1
....COCCONEIS		86	2
...CYMBELLACEAE			
....AMPHORA		29	1
...FRAGILARIACEAE			
....SYNEDRA		120	3
...GOMPHONEMATACEAE			
....GOMPHONEMA		29	1
...NAVICULACEAE	NAVICULOID		
....NAVICULA		320	9
...NITZSCHIACEAE			
D ....NITZSCHIA		580	16
...SURIRELLACEAE			
....SURIRELLA		29	1
...ACHNANTHACEAE			
....RHOICOSPHENIA		29	1

NOTE: D - DOMINANT ORGANISM: GREATER OR EQUAL TO 15%
ANALYSIS METHOD: SEDGWICK-RAFTER CHAMBER , 200-X MICROSCOPE
DIVERSITY INDICES, BASED ON ACTUAL COUNTS:
PHYL/DIV 0.682
CLASS 0.682
ORDER 1.561
FAMILY 2.451
GENERA 2.850

01404100 RARITAN RIVER NEAR SOUTH BOUND BROOK, N. J.--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA
WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

NOV. 20, 1974
1015 HOURS

IDENTIFICATION OF PHYTOPLANKTON

3,000 CELLS/ML

	_ORGANISM__NAME	_COMMON__NAME	CELLS/ML	PER_CENT
	CHLOROPHYTA	GREEN ALGAE		
	.CHLOROPHYCEAE			
	..CHLOROCOCCALES			
	...BOTRYOCOCCACEAE			
D	....BOTRYOCOCCUS		1,600	55
	...MICRACTINIACEAE			
	....GOLENKINIA		22	1
	...SCENEDESMACEAE			
	....SCENEDESMUS		87	3
	..VOLVOCALES			
	...CHLAMYDOMONADACEAE			
	....CHLAMYDOMONAS		87	3
	CHRYSOPHYTA			
	.BACILLARIOPHYCEAE	DIATOMS		
	..CENTRALES	CENTRIC		
	...COSCINODISCACEAE			
	....CYCLOTELLA		240	8
	..PENNALES	PENNATE		
	...ACHNANTHACEAE			
	....ACHNANTHES		22	1
	...FRAGILARIACEAE			
	....SYNEDRA		22	1
	...GOMPHONEMATACEAE			
	....GOMPHONEMA		22	1
	...NAVICULACEAE	NAVICULOID		
	....NAVICULA		130	4
	...NITZSCHIACEAE			
	....NITZSCHIA		22	1
	CYANOPHYTA	BLUE-GREEN ALGAE		
	.MYXOPHYCEAE			
	..OSCILLATORIALES	FILAMENTOUS		
	...OSCILLATORIACEAE			
D	....LYNGBYA		660	22
	EUGLENOPHYTA	EUGLENOIDS		
	.EUGLENOPHYCEAE			
	..EUGLENALES			
	...EUGLENACEAE			
	....TRACHELOMONAS		22	1

NOTE: D - DOMINANT ORGANISM: GREATER OR EQUAL TO 15%
ANALYSIS METHOD: SEDGWICK-RAFTER CHAMBER , 200-X MICROSCOPE
DIVERSITY INDICES, BASED ON ACTUAL COUNTS:
PHYL/DIV 1.379
CLASS 1.379
ORDER 1.703
FAMILY 2.099
GENERA 2.099

DEC. 31, 1974
1020 HOURS

IDENTIFICATION OF PHYTOPLANKTON

2,700 CELLS/ML

	_ORGANISM__NAME	_COMMON__NAME	CELLS/ML	PER_CENT
	CHLOROPHYTA	GREEN ALGAE		
	.CHLOROPHYCEAE			
	..CHLOROCOCCALES			
	...OOCYSTACEAE			
	....CLOSTERIOPSIS		21	1
	....KIRCHNERIELLA		21	1
	CHRYSOPHYTA			
	.BACILLARIOPHYCEAE	DIATOMS		
	..PENNALES	PENNATE		
	...ACHNANTHACEAE			
	....ACHNANTHES		85	3
	...FRAGILARIACEAE			
	....SYNEDRA		21	1
	...NAVICULACEAE	NAVICULOID		
	....NAVICULA		85	3
	...NITZSCHIACEAZ			
	....NITZSCHIA		150	5
	.CHRYSOPHYCEAE	YELLOW-BROWN ALGAE		
	..CHRYSOMONADALES			
	...OCHROMONADACEAE			
	....DINOBRYON		21	1
	CYANOPHYTA	BLUE-GREEN ALGAE		
	.MYXOPHYCEAE			
	..OSCILLATORIALES	FILAMENTOUS		
	...OSCILLATORIACEAE			
D	....LYNGBYA		2,300	85

NOTE: D - DOMINANT ORGANISM: GREATER OR EQUAL TO 15%
ANALYSIS METHOD: SEDGWICK-RAFTER CHAMBER , 200-X MICROSCOPE
DIVERSITY INDICES, BASED ON ACTUAL COUNTS:
PHYL/DIV 0.675
CLASS 0.717
ORDER 0.717
FAMILY 0.937
GENERA 0.952

01404100 RARITAN RIVER NEAR SOUTH BOUND BROOK, N. J.--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

JAN. 15, 1975
0930 HOURS

IDENTIFICATION OF PHYTOPLANKTON

810 CELLS/ML

ORGANISM NAME	COMMON NAME	CELLS/ML	PER CENT
CHLOROPHYTA	GREEN ALGAE		
.CHLOROPHYCEAE			
..CHLOROCOCCALES			
...OOCYSTACEAE			
....ANKISTRODESMUS		32	4
CHRYSOPHYTA			
.BACILLARIOPHYCEAE	DIATOMS		
..CENTRALES	CENTRIC		
...COSCINODISCACEAE			
....CYCLOTELLA		16	2
....MELOSIRA		81	10
..PENNALES	PENNATE		
...ACHNANTHACEAE			
....ACHNANTHES		49	6
...DIATOMACEAE			
....DIATOMA		16	2
...FRAGILARIACEAE			
....SYNEDRA		32	4
...NAVICULACEAE	NAVICULOID		
D ....NAVICULA		130	16
...NITZSCHIACEAE			
....HANTZSCHIA		16	2
....NITZSCHIA		110	14
.CHRYSOPHYCEAE	YELLOW-BROWN ALGAE		
..CHRYSOMONADALES			
...OCHROMONADACEAE			
....DINOBRYON		16	2
.BACILLARIOPHYCEAE	DIATOMS		
..PENNALES	PENNATE		
...ACHNANTHACEAE			
....RHOICOSPHENIA		32	4
CYANOPHYTA	BLUE-GREEN ALGAE		
.MYXOPHYCEAE			
..OSCILLATORIALES	FILAMENTOUS		
...OSCILLATORIACEAE			
D ....LYNGBYA		280	34

NOTE: D - DOMINANT ORGANISM: GREATER OR EQUAL TO 15%
ANALYSIS METHOD: SEDGWICK-RAFTER CHAMBER , 200-X MICROSCOPE
DIVERSITY INDICES, BASED ON ACTUAL COUNTS:
PHYL/DIV 1.143
CLASS 1.482
ORDER 1.902
FAMILY 2.769
GENERA 2.934

FEB. 21, 1975
1020 HOURS

IDENTIFICATION OF PHYTOPLANKTON

1,400 CELLS/ML

ORGANISM NAME	COMMON NAME	CELLS/ML	PER CENT
CHLOROPHYTA	GREEN ALGAE		
.CHLOROPHYCEAE			
..CHLOROCOCCALES			
...OOCYSTACEAE			
....ANKISTRODESMUS		23	2
...SCENEDESMACEAE			
....SCENEDESMUS		11	1
..VOLVOCALES			
...CHLAMYDOMONADACEAE			
....CHLAMYDOMONAS		23	2
CHRYSOPHYTA			
.BACILLARIOPHYCEAE	DIATOMS		
..CENTRALES	CENTRIC		
...COSCINODISCACEAE			
....CYCLOTELLA		79	6
..PENNALES	PENNATE		
...ACHNANTHACEAE			
....ACHNANTHES		23	2
...CYMBELLACEAE			
....CYMBELLA		11	1
...FRAGILARIACEAE			
....SYNEDRA		150	10
...GOMPHONEMATACEAE			
....GOMPHONEMA		68	5
...NAVICULACEAE	NAVICULOID		
....NAVICULA		140	10
...NITZSCHIACEAE			
....NITZSCHIA		170	12
...SURIRELLACEAE			
....SURIRELLA		11	1
...ACHNANTHACEAE			
....RHOICOSPHENIA		45	3
CYANOPHYTA	BLUE-GREEN ALGAE		
.MYXOPHYCEAE			
..OSCILLATORIALES	FILAMENTOUS		
...OSCILLATORIACEAE			
D ....LYNGBYA		600	40

NOTE: D - DOMINANT ORGANISM: GREATER OR EQUAL TO 15%
ANALYSIS METHOD: SEDGWICK-RAFTER CHAMBER , 200-X MICROSCOPE
DIVERSITY INDICES, BASED ON ACTUAL COUNTS:
PHYL/DIV 1.201
CLASS 1.201
ORDER 1.489
FAMILY 2.586
GENERA 2.586

01404100 RARITAN RIVER NEAR SOUTH BOUND BROOK, N. J.--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA
WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

MAR. 19, 1975
0945 HOURS

IDENTIFICATION OF PHYTOPLANKTON

1,200 CELLS/ML

	_ORGANISM__NAME	_COMMON__NAME	CELLS/ML	PER_CENT
	CHLOROPHYTA	GREEN ALGAE		
	.CHLOROPHYCEAE			
	..VOLVOCALES			
	...CHLAMYDOMONADACEAE			
	....CHLAMYDOMONAS		79	6
	CHRYSOPHYTA			
	.BACILLARIOPHYCEAE	DIATOMS		
	..CENTRALES	CENTRIC		
	...COSCINODISCACEAE			
	....CYCLOTELLA		170	14
	..PENNALES	PENNATE		
	...EUNOTIACEAE			
	....EUNOTIA		34	3
	...FRAGILARIACEAE			
	....ASTERIONELLA		87	5
	....SYNEDRA		90	7
	...MERIDIONACEAE			
	....MERIDION		11	1
	...NAVICULACEAE	NAVICULOID		
	....NAVICULA		68	5
	....PINNULARIA		150	12
	...NITZSCHIACEAE			
D	....NITZSCHIA		200	16
	...ACHNANTHACEAE			
	....RHOICOSPHENIA		34	3
	CYANOPHYTA	BLUE-GREEN ALGAE		
	.MYXOPHYCEAE			
	..CHROOCOCCALES	COCCOID		
	...CHROOCOCCACEAE			
	....ANACYSTIS		11	1
	..OSCILLATORIALES	FILAMENTOUS		
	...OSCILLATORIACEAE			
D	....LYNGBYA		340	27

NOTE: D - DOMINANT ORGANISM: GREATER OR EQUAL TO 15%
ANALYSIS METHOD: SEDGWICK-RAFTER CHAMBER , 200-X MICROSCOPE
DIVERSITY INDICES, BASED ON ACTUAL COUNTS:
PHYL/DIV 1.160
CLASS 1.160
ORDER 1.709
FAMILY 2.792
GENERA 3.061

APR. 11, 1975
0920 HOURS

IDENTIFICATION OF PHYTOPLANKTON

3,400 CELLS/ML

	_ORGANISM__NAME	_COMMON__NAME	CELLS/ML	PER_CENT
	CHLOROPHYTA	GREEN ALGAE		
	.CHLOROPHYCEAE			
	..CHLOROCOCCALES			
	...OOCYSTACEAE			
	....ANKISTRODESMUS		37	1
	CHRYSOPHYTA			
	.BACILLARIOPHYCEAE	DIATOMS		
	..CENTRALES	CENTRIC		
	...COSCINODISCACEAE			
D	....CYCLOTELLA		520	15
	....MELOSIRA		260	8
	..PENNALES	PENNATE		
	...FRAGILARIACEAE			
	....ASTERIONELLA		220	7
	...GOMPHONEMATACEAE			
	....GOMPHONEMA		75	2
	...MERIDIONACEAE			
	....MERIDION		37	1
	...NAVICULACEAE	NAVICULOID		
D	....NAVICULA		880	25
	...NITZSCHIACEAE			
D	....NITZSCHIA		670	20
	...ACHNANTHACEAE			
	....RHOICOSPHENIA		110	3
	CYANOPHYTA	BLUE-GREEN ALGAE		
	.MYXOPHYCEAE			
	..CHROOCOCCALES	COCCOID		
	...CHROOCOCCACEAE			
D	....ANACYSTIS		640	18

NOTE: D - DOMINANT ORGANISM: GREATER OR EQUAL TO 15%
ANALYSIS METHOD: SEDGWICK-RAFTER CHAMBER , 200-X MICROSCOPE
DIVERSITY INDICES, BASED ON ACTUAL COUNTS:
PHYL/DIV 0.774
CLASS 0.774
ORDER 1.466
FAMILY 2.577
GENERA 2.787

01404100 RARITAN RIVER NEAR SOUTH BOUND BROOK, N. J.--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA
WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

MAY 27, 1975
1300 HOURS

IDENTIFICATION OF PHYTOPLANKTON

3,700 CELLS/ML

	_ORGANISM__NAME_____________	_COMMON__NAME______	CELLS/ML	PER_CENT
	CHLOROPHYTA	GREEN ALGAE		
	.CHLOROPHYCEAE			
	..CHLOROCOCCALES			
	...OOCYSTACEAE			
	....ANKISTRODESMUS		97	3
	....OOCYSTIS		190	5
	...SCENEDESMACEAE			
D	....SCENEDESMUS		580	16
	....TETRASTRUM		190	5
	CHRYSOPHYTA			
	.BACILLARIOPHYCEAE	DIATOMS		
	..CENTRALES	CENTRIC		
	...COSCINODISCACEAE			
	....CYCLOTELLA		150	4
	....MELOSIRA		49	1
	..PENNALES	PENNATE		
	...ACHNANTHACEAE			
	....ACHNANTHES		290	8
	....COCCONEIS		49	1
	...CYMBELLACEAE			
	....CYMBELLA		49	1
	...FRAGILARIACEAE			
	....SYNEDRA		49	1
	...GOMPHONEMATACEAE			
	....GOMPHONEMA		240	7
	...NAVICULACEAE	NAVICULOID		
D	....NAVICULA		1,000	29
	...NITZSCHIACEAE			
D	....NITZSCHIA		580	16
	...SURIRELLACEAE			
	....SURIRELLA		49	1
	...ACHNANTHACEAE			
	....RHOICOSPHENIA		97	3

NOTE: D - DOMINANT ORGANISM: GREATER OR EQUAL TO 15%
ANALYSIS METHOD: SEDGWICK-RAFTER CHAMBER , 200-X MICROSCOPE
DIVERSITY INDICES, BASED ON ACTUAL COUNTS:
PHYL/DIV 0.868
CLASS 0.868
ORDER 1.139
FAMILY 2.079
GENERA 3.226

JUNE 27, 1975
1100 HOURS

IDENTIFICATION OF PHYTOPLANKTON

1,700 CELLS/ML

	_ORGANISM__NAME_____________	_COMMON__NAME______	CELLS/ML	PER_CENT
	CHLOROPHYTA	GREEN ALGAE		
	.CHLOROPHYCEAE			
	..CHLOROCOCCALES			
	...MICRACTINIACEAE			
D	....MICRACTINIUM		310	18
	...OOCYSTACEAE			
	....ANKISTRODESMUS		39	2
	....TETRAEDRON		20	1
	...SCENEDESMACEAE			
	....ACTINASTRUM		200	11
D	....SCENEDESMUS		350	20
	CHRYSOPHYTA			
	.BACILLARIOPHYCEAE	DIATOMS		
	..CENTRALES	CENTRIC		
	...COSCINODISCACEAE			
	....CYCLOTELLA		140	8
	....MELOSIRA		180	10
	..PENNALES	PENNATE		
	...ACHNANTHACEAE			
	....ACHNANTHES		20	1
	...GOMPHONEMATACEAE			
	....GOMPHONEMA		39	2
	...NAVICULACEAE	NAVICULOID		
D	....NAVICULA		260	15
	...NITZSCHIACEAE			
	....NITZSCHIA		59	3
	...ACHNANTHACEAE			
	....RHOICOSPHENIA		20	1
	CYANOPHYTA	BLUE-GREEN ALGAE		
	.MYXOPHYCEAE			
	..CHROOCOCCALES	COCCOID		
	...CHROOCOCCACEAE			
	....ANACYSTIS		98	6
	EUGLENOPHYTA	EUGLENOIDS		
	.EUGLENOPHYCEAE			
	..EUGLENALES			
	...EUGLENACEAE			
	....PHACUS		20	1

NOTE: D - DOMINANT ORGANISM: GREATER OR EQUAL TO 15%
ANALYSIS METHOD: SEDGWICK-RAFTER CHAMBER , 200-X MICROSCOPE
DIVERSITY INDICES, BASED ON ACTUAL COUNTS:
PHYL/DIV 1.321
CLASS 1.321
ORDER 1.722
FAMILY 2.725
GENERA 3.229

01404100 RARITAN RIVER NEAR SOUTH BOUND BROOK, N. J.--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA
WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

JULY 28, 1975
1030 HOURS

IDENTIFICATION OF PHYTOPLANKTON

3,400 CELLS/ML

	_ORGANISM__NAME_______________	_COMMON__NAME_______	CELLS/ML	PER_CENT
	CHLOROPHYTA	GREEN ALGAE		
	.CHLOROPHYCEAE			
	..CHLOROCOCCALES			
	...OOCYSTACEAE			
	....ANKISTRODESMUS		46	1
D	....DICTYOSPHAERIUM		929	27
D	....KIRCHNERIELLA		920	27
	...SCENEDESMACEAE			
L	....SCENEDESMUS			0
	CHRYSOPHYTA			
	.BACILLARIOPHYCEAE	DIATOMS		
	..CENTRALES	CENTRIC		
	...COSCINODISCACEAE			
	....CYCLOTELLA		140	4
D	....MELOSIRA		1,100	32
	..PENNALES	PENNATE		
	...CYMBELLACEAE			
L	....CYMBELLA			0
	...NAVICULACEAE	NAVICULOID		
L	....GYROSIGMA			0
	....NAVICULA		140	4
	...NITZSCHIACEAE			
	....NITZSCHIA		140	4

NOTE: D - DOMINANT ORGANISM: GREATER OR EQUAL TO 15%
L - LESS THEN 1%: MAY NOT HAVE BEEN ACTUALLY COUNTED
ANALYSIS METHOD: SEDGWICK-RAFTER CHAMBER , 200-X MICROSCOPE
DIVERSITY INDICES, BASED ON ACTUAL COUNTS:
PHYL/DIV 0.992
CLASS 0.992
ORDER 1.297
FAMILY 1.378
GENERA 2.193

AUG. 12, 1975
1330 HOURS

IDENTIFICATION OF PHYTOPLANKTON

4,700 CELLS/ML

	_ORGANISM__NAME_______________	_COMMON__NAME_______	CELLS/ML	PER_CENT
	CHLOROPHYTA	GREEN ALGAE		
	.CHLOROPHYCEAE			
	..CHLOROCOCCALES			
	...HYDRODICTYACEAE			
L	....PEDIASTRUM			0
	...OOCYSTACEAE			
	....ANKISTRODESMUS		130	3
	....KIRCHNERIELLA		65	1
	....OOCYSTIS		65	1
	...SCENEDESMACEAE			
D	....SCENEDESMUS		1,400	30
	..ZYGNEMATALES			
	...DESMIDIACEAE	PLACODERM DESMIDS		
	....CLOSTERIUM		65	1
L	....COSMARIUM			0
	CHRYSOPHYTA			
	.BACILLARIOPHYCEAE	DIATOMS		
	..CENTRALES	CENTRIC		
	...COSCINODISCACEAE			
	....CYCLOTELLA		650	14
	....MELOSIRA		330	7
	..PENNALES	PENNATE		
	...CYMBELLACEAE			
L	....CYMBELLA			0
	...FRAGILARIACEAE			
L	....SYNEDRA			0
	...GOMPHONEMATACEAE			
	....GOMPHONEMA		65	1
	...NAVICULACEAE	NAVICULOID		
L	....GYROSIGMA			0
	....NAVICULA		330	7
L	....PINNULARIA			0
	...NITZSCHIACEAE			
	....NITZSCHIA		520	11
	CYANOPHYTA	BLUE-GREEN ALGAE		
	.MYXOPHYCEAE			
	..CHROOCOCCALES	COCCOID		
	...CHROOCOCCACEAE			
L	....AGMENELLUM			0
D	....ANACYSTIS		1,000	22
	..OSCILLATORIALES	FILAMENTOUS		
	...NOSTOCACEAE			
L	....ANABAENA			0
	EUGLENOPHYTA	EUGLENOIDS		
	.EUGLENOPHYCEAE			
	..EUGLENALES			
	...EUGLENACEAE			
L	....EUGLENA			0
L	....PHACUS			0
	....TRACHELOMONAS		65	1

NOTE: D - DOMINANT ORGANISM: GREATER OR EQUAL TO 15%
L - LESS THEN 1%: MAY NOT HAVE BEEN ACTUALLY COUNTED
ANALYSIS METHOD: SEDGWICK-RAFTER CHAMBER , 200-X MICROSCOPE
DIVERSITY INDICES, BASED ON ACTUAL COUNTS:
PHYL/DIV 1.625
CLASS 1.625
ORDER 2.106
FAMILY 2.569
GENERA 2.840

01404100 RARITAN RIVER NEAR SOUTH BOUND BROOK, N. J.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS AT 25°C), WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	278	254	266	498	448	---	337	317	330	282	254	272
2	324	280	295	494	410	451	---	---	---	260	246	253
3	442	312	---	468	414	444	---	---	---	260	250	255
4	---	---	---	498	406	431	---	---	---	261	249	255
5	---	---	---	486	440	461	---	---	---	260	248	255
6	---	---	---	455	401	436	---	---	---	280	252	261
7	434	380	---	472	416	459	---	---	---	277	195	227
8	480	414	447	504	436	474	---	---	---	212	186	198
9	498	446	---	535	433	455	---	---	---	221	135	181
10	---	---	---	582	474	516	---	---	---	270	150	224
11	---	---	---	579	475	529	---	---	---	150	126	140
12	---	---	---	589	503	541	208	198	---	149	119	139
13	---	---	---	540	190	273	254	200	228	178	146	159
14	---	---	---	222	192	212	280	244	262	180	170	---
15	---	---	---	252	224	242	292	250	270	---	---	---
16	---	---	---	280	252	264	278	242	---	---	---	---
17	---	---	---	286	274	279	---	---	---	---	---	---
18	---	---	---	282	252	270	---	---	---	---	---	---
19	---	---	---	284	276	280	---	---	---	---	---	---
20	---	---	---	374	278	324	---	---	---	---	---	---
21	---	---	---	373	335	353	---	---	---	---	---	---
22	---	---	---	343	289	325	---	---	---	---	---	---
23	382	380	---	416	342	373	---	---	---	---	---	---
24	398	350	373	418	334	379	---	---	---	---	---	---
25	472	366	388	352	332	342	---	---	---	---	---	---
26	422	340	381	444	356	383	---	---	---	---	---	---
27	448	362	395	516	422	446	234	212	---	---	---	---
28	---	---	---	521	411	468	240	220	234	272	244	---
29	---	---	---	419	363	382	260	242	250	272	206	238
30	---	---	---	413	339	371	258	246	252	253	205	224
31	---	---	---	---	---	---	272	240	258	263	219	248
MONTH	---	---	---	589	190	385	---	---	---	---	---	---

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	270	252	266	192	182	186	184	156	172	189	173	183
2	270	252	258	198	190	193	180	162	171	184	168	178
3	269	249	259	208	198	202	185	167	173	176	146	163
4	261	245	252	220	206	212	191	181	187	173	151	166
5	263	233	247	226	216	221	191	171	182	167	151	160
6	252	236	243	230	220	226	174	160	168	164	150	158
7	252	222	238	246	220	238	172	136	155	180	156	170
8	263	225	231	252	238	242	158	138	149	184	154	171
9	229	213	222	254	246	---	163	141	153	188	168	178
10	228	212	220	---	---	---	167	145	157	197	177	187
11	226	212	217	---	---	---	170	146	159	209	179	195
12	242	214	223	210	204	---	176	160	168	213	193	202
13	240	210	223	198	182	192	189	173	181	222	200	212
14	231	211	223	209	189	204	197	169	185	223	193	210
15	235	215	225	207	181	197	194	182	187	212	184	199
16	225	217	220	197	171	185	203	175	190	206	186	196
17	229	225	228	180	150	167	198	178	187	203	173	188
18	230	186	205	186	158	170	199	181	192	192	174	184
19	188	186	188	176	170	172	208	198	203	196	166	179
20	190	188	192	184	170	176	217	207	213	197	165	182
21	216	190	207	190	168	180	228	212	220	197	179	189
22	220	200	215	178	166	172	242	208	224	206	188	198
23	210	168	198	178	154	167	229	201	216	218	188	205
24	166	120	136	182	162	173	222	210	215	215	187	202
25	134	110	122	174	156	168	213	197	207	239	201	226
26	148	134	141	190	164	178	223	203	214	250	226	240
27	172	150	160	202	176	191	224	202	213	224	188	209
28	184	170	180	198	168	185	215	197	205	214	180	198
29	---	---	---	178	170	175	208	196	200	211	175	194
30	---	---	---	182	170	174	193	167	184	201	179	196
31	---	---	---	194	168	182	---	---	---	197	175	188
MONTH	270	110	212	254	150	190	242	136	188	250	146	191

01404100 RARITAN RIVER NEAR SOUTH BOUND BROOK, N. J.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS AT 25°C), WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	185	173	180	216	186	200	226	214	217	310	284	295
2	188	156	174	248	210	229	232	212	220	386	298	327
3	208	166	198	257	237	250	230	214	220	464	370	386
4	219	207	213	253	227	241	244	226	232	452	378	402
5	227	207	220	257	219	244	244	224	235	566	450	505
6	194	132	148	246	226	239	256	234	241	586	424	485
7	147	129	138	222	194	---	258	236	246	---	---	---
8	155	141	151	238	208	219	296	246	257	---	---	---
9	160	152	157	262	220	246	308	266	278	---	---	---
10	177	161	168	246	222	229	286	264	273	524	484	---
11	189	177	183	244	222	235	304	278	288	638	508	577
12	200	140	176	276	262	269	330	292	307	636	526	579
13	140	114	122	282	228	---	338	314	326	484	266	311
14	139	129	136	---	---	---	348	318	325	316	288	295
15	155	141	150	---	---	---	378	328	349	414	322	361
16	166	148	160	114	102	---	370	276	332	460	382	418
17	172	162	156	128	114	123	284	252	265	540	434	483
18	178	172	175	148	138	142	316	270	281	556	464	461
19	192	164	181	170	148	162	333	281	304	551	379	446
20	188	158	166	176	138	170	380	306	334	441	367	403
21	170	166	169	120	82	91	429	338	366	429	271	350
22	174	162	167	92	84	87	421	353	387	323	251	269
23	194	172	179	106	90	98	432	366	393	316	144	211
24	200	162	198	156	110	136	415	349	383	164	122	144
25	220	176	208	168	120	148	333	119	188	120	110	114
26	236	216	222	148	110	136	194	146	169	120	104	116
27	248	220	238	166	150	160	232	196	213	108	92	97
28	260	246	253	176	164	172	288	234	259	116	96	104
29	238	122	177	192	180	185	380	282	311	136	110	126
30	184	134	166	198	190	194	384	324	349	164	136	151
31	---	---	---	216	196	205	316	284	292	---	---	---
MONTH	260	114	177	282	82	185	432	119	205	638	92	324

DISSOLVED OXYGEN (DO), IN MILLIGRAMS PER LITER, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	9.1	8.3	8.8	9.6	7.8	9.0	---	---	---	12.1	9.3	11.6
2	9.1	8.2	8.6	9.3	7.3	8.8	---	---	---	13.1	10.6	11.6
3	9.4	7.1	8.2	7.6	5.1	6.4	---	---	---	---	---	---
4	8.6	7.9	8.2	6.7	5.1	5.8	---	---	---	---	---	---
5	8.9	8.2	8.5	6.6	5.8	6.2	---	---	---	---	---	---
6	8.9	7.5	---	7.8	6.0	6.7	---	---	---	---	---	---
7	---	---	---	8.2	7.0	7.7	---	---	---	---	---	---
8	8.2	7.8	8.0	8.7	7.2	8.0	---	---	---	---	---	---
9	8.0	7.6	7.7	9.2	8.0	8.4	---	---	---	---	---	---
10	---	---	---	9.4	8.2	9.0	---	---	---	---	---	---
11	---	---	---	10.4	8.6	9.2	---	---	---	---	---	---
12	---	---	---	9.6	7.5	8.1	14.4	13.7	---	---	---	---
13	---	---	---	8.8	6.8	7.6	14.6	14.3	14.5	---	---	---
14	---	---	---	10.1	8.6	9.3	14.8	14.4	14.6	---	---	---
15	---	---	---	10.0	8.6	9.3	14.9	14.2	14.6	---	---	---
16	---	---	---	9.7	8.8	9.3	15.3	14.0	---	---	---	---
17	---	---	---	9.7	8.4	9.1	---	---	---	---	---	---
18	---	---	---	9.8	9.1	9.5	---	---	---	---	---	---
19	---	---	---	10.3	9.6	9.9	---	---	---	---	---	---
20	---	---	---	10.9	10.0	10.3	---	---	---	---	---	---
21	---	---	---	9.9	8.9	---	---	---	---	---	---	---
22	---	---	---	---	---	---	---	---	---	---	---	---
23	11.0	9.6	---	---	---	---	---	---	---	---	---	---
24	11.7	10.6	11.2	---	---	---	---	---	---	---	---	---
25	11.2	10.2	10.5	---	---	---	---	---	---	---	---	---
26	11.0	10.3	10.6	---	---	---	---	---	---	---	---	---
27	11.3	9.8	10.3	---	---	---	14.7	11.0	12.9	---	---	---
28	10.5	9.7	10.1	---	---	---	14.6	14.1	14.3	---	---	---
29	10.4	9.5	10.0	---	---	---	14.4	13.4	14.1	---	---	---
30	10.2	9.2	9.6	---	---	---	13.8	13.2	13.6	---	---	---
31	10.0	9.1	9.5	---	---	---	13.2	12.5	12.8	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

01404100 RARITAN RIVER NEAR SOUTH BOUND BROOK, N. J.--Continued

DISSOLVED OXYGEN (DO), IN MILLIGRAMS PER LITER, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1				---	---	---	12.5	11.2	11.8	9.8	8.7	9.2
2				---	---	---	12.8	11.4	12.1	10.8	8.6	9.5
3				---	---	---	12.2	10.8	11.3	12.1	8.8	10.1
4				---	---	---	12.0	10.9	11.4	9.4	7.9	8.6
5				---	---	---	13.0	10.3	11.6	9.8	8.9	9.6
6				---	---	---	13.7	11.8	12.6	9.7	9.0	9.4
7				---	---	---	15.5	11.8	13.8	9.8	9.4	9.6
8				---	---	---	14.2	12.4	13.3	9.6	9.0	9.4
9				---	---	---	14.1	12.0	12.9	9.8	8.7	9.1
10				---	---	---	13.5	11.6	12.6	9.7	8.1	8.9
11				---	---	---	13.3	10.8	12.1	10.0	7.9	8.9
12				8.3	7.8	---	13.3	10.5	12.0	10.1	7.8	8.8
13				8.1	7.8	8.0	13.7	10.4	12.0	8.2	7.0	7.6
14				8.6	8.2	8.3	13.6	10.2	11.9	8.3	7.7	8.1
15				9.4	8.7	9.1	11.9	9.1	10.5	7.9	7.1	7.4
16				9.4	9.2	9.3	13.9	9.0	11.1	8.1	7.5	7.8
17				9.9	9.3	9.6	14.2	9.2	11.5	7.8	7.2	7.5
18				11.3	9.2	10.3	12.9	8.7	10.7	7.9	7.4	7.6
19				11.2	10.2	10.6	12.6	8.4	10.2	8.2	7.5	7.9
20				10.4	8.1	9.8	13.4	8.3	10.5	7.6	6.7	7.3
21				10.5	8.1	9.4	13.3	9.0	11.0	6.8	6.3	6.5
22				10.8	10.2	10.6	15.5	9.2	12.0	6.6	6.1	6.3
23				11.3	10.5	10.7	14.3	8.8	11.0	6.5	5.9	6.3
24				11.6	10.5	10.9	12.1	8.3	9.5	6.2	5.3	5.8
25				11.9	10.8	11.1	8.8	7.8	8.3	5.7	4.7	5.0
26				12.0	10.9	11.2	9.6	8.6	9.2	6.4	5.3	5.8
27				12.5	11.5	12.1	10.1	9.1	9.6	6.7	5.5	6.0
28				12.9	11.9	12.4	10.2	9.3	9.7	6.2	5.1	5.6
29				12.3	11.9	12.1	10.2	9.0	9.5	6.2	4.9	5.6
30				11.8	11.3	11.5	10.1	8.7	9.0	6.4	4.2	5.2
31				12.5	11.3	11.9	---	---	---	6.3	5.0	5.7
MONTH				---	---	---	15.5	7.8	11.2	12.1	4.2	7.6

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	6.9	5.6	6.6	7.1	6.1	6.7	8.8	7.1	7.8	8.8	6.8	7.7
2	7.1	6.6	6.7	7.1	6.0	6.5	10.0	6.7	8.0	8.7	6.6	7.6
3	7.2	6.6	6.7	6.9	5.7	6.2	10.8	6.2	8.2	9.3	7.2	8.2
4	7.4	6.5	7.0	6.7	5.5	6.1	9.4	5.9	7.5	10.0	7.7	8.8
5	7.6	6.8	7.0	7.8	5.5	6.6	9.4	5.9	7.6	9.5	8.0	8.8
6	8.7	7.9	8.3	8.2	6.2	7.1	7.9	5.6	6.7	9.0	7.4	8.0
7	8.4	8.0	8.2	8.1	6.4	---	8.0	5.7	6.9	---	---	---
8	8.6	8.1	8.3	6.4	5.5	6.0	9.1	6.7	7.8	---	---	---
9	8.6	7.5	8.1	6.8	5.3	5.9	8.8	5.9	7.2	---	---	---
10	7.8	7.3	7.6	6.2	5.7	5.9	8.9	5.2	7.0	9.7	8.1	---
11	7.5	7.1	7.4	7.0	5.5	6.1	9.8	5.9	7.7	9.8	7.2	8.2
12	7.8	7.0	7.4	7.2	5.2	5.8	9.7	5.8	7.6	7.6	6.6	7.2
13	8.3	7.3	8.0	6.7	5.5	---	10.2	6.3	7.8	8.2	5.7	7.1
14	7.5	6.7	7.1	---	---	---	10.2	6.7	8.6	9.0	7.1	8.0
15	7.2	6.8	7.0	---	---	---	10.1	5.2	7.5	9.1	8.1	8.6
16	7.4	7.1	7.3	6.7	5.9	---	6.7	5.2	5.9	9.7	7.8	8.9
17	7.4	7.0	7.2	6.7	5.9	6.3	6.7	5.6	6.0	9.2	8.2	8.7
18	7.4	6.9	7.2	7.1	6.5	6.7	7.7	5.9	6.8	8.6	7.1	7.8
19	7.4	6.6	6.9	7.3	6.5	6.8	8.1	5.7	6.9	8.0	5.2	6.3
20	7.0	6.6	6.8	7.0	6.1	6.5	8.8	5.8	7.3	6.6	5.3	5.8
21	7.4	7.0	7.2	6.6	5.7	6.1	10.0	6.1	7.8	6.0	4.6	5.2
22	7.6	7.0	7.3	5.8	5.5	5.6	9.6	5.9	7.6	7.4	5.6	6.5
23	7.7	6.8	7.3	6.4	5.8	6.1	9.9	6.3	8.1	8.8	6.7	7.8
24	7.8	6.5	7.1	7.3	6.2	6.8	7.7	6.3	6.8	9.3	8.2	8.8
25	6.7	5.7	6.2	8.0	7.0	7.6	8.0	7.0	7.3	9.1	7.7	8.4
26	7.1	5.7	6.4	8.1	7.3	7.8	7.4	6.7	7.0	7.9	6.8	7.3
27	7.3	6.0	6.6	8.3	7.7	8.1	7.4	6.2	6.9	7.5	6.7	7.1
28	6.9	5.6	6.2	8.5	7.3	7.8	7.3	6.2	6.8	8.7	6.6	7.1
29	7.5	6.4	6.8	8.4	7.1	7.8	7.8	5.9	6.8	9.2	7.9	8.3
30	7.3	6.7	7.0	9.4	7.6	8.5	8.2	5.6	6.7	9.0	8.1	8.3
31	---	---	---	8.7	7.6	8.1	8.2	6.4	7.2	---	---	---
MONTH	8.7	5.6	7.2	9.4	5.2	6.8	10.8	5.2	7.3	10.0	4.6	7.7

01404100 RARITAN RIVER NEAR SOUTH BOUND BROOK, N. J.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	15.0	13.5	14.5	15.5	14.5	15.0	3.0	2.0	2.5	4.0	3.0	3.5
2	13.5	11.5	12.5	15.5	14.0	15.0	---	---	---	3.5	3.0	3.5
3	13.5	10.0	11.5	15.5	14.5	14.5	---	---	---	3.0	2.5	3.0
4	14.5	10.5	12.5	16.5	14.0	15.0	---	---	---	3.5	2.0	3.0
5	15.0	11.5	13.5	16.0	15.0	15.5	---	---	---	4.0	3.0	3.5
6	---	---	---	15.5	14.0	15.0	---	---	---	3.0	1.5	2.5
7	15.0	14.5	---	14.5	13.0	14.0	---	---	---	3.5	2.5	3.0
8	14.5	12.5	13.5	13.0	11.5	12.0	---	---	---	3.0	2.5	3.0
9	14.5	12.5	13.5	11.5	10.5	11.0	---	---	---	6.5	2.5	5.0
10	---	---	---	11.0	9.5	10.0	---	---	---	6.5	4.5	5.5
11	---	---	---	10.0	8.5	9.5	---	---	---	---	---	---
12	---	---	---	11.5	9.5	10.5	5.0	4.0	---	---	---	---
13	---	---	---	11.5	10.5	11.0	5.0	4.5	5.0	---	---	---
14	---	---	---	10.5	9.5	10.0	6.0	5.0	5.5	---	---	---
15	---	---	---	10.0	8.0	9.0	5.0	4.5	4.5	---	---	---
16	---	---	---	7.5	6.5	7.0	5.0	4.5	---	---	---	---
17	---	---	---	6.5	5.5	6.0	---	---	---	---	---	---
18	---	---	---	6.0	4.5	5.5	---	---	---	---	---	---
19	---	---	---	7.0	5.0	6.0	---	---	---	---	---	---
20	---	---	---	8.0	7.0	7.5	---	---	---	---	---	---
21	---	---	---	8.5	7.0	8.0	---	---	---	---	---	---
22	---	---	---	7.0	5.5	6.0	---	---	---	---	---	---
23	9.5	8.0	---	5.5	4.5	5.0	---	---	---	---	---	---
24	10.0	8.0	9.0	6.5	4.5	5.5	---	---	---	---	---	---
25	10.5	8.5	9.5	6.5	5.5	6.0	---	---	---	---	---	---
26	10.5	9.0	10.0	6.0	4.0	5.0	---	---	---	---	---	---
27	11.0	9.0	10.5	4.5	3.0	4.0	4.0	3.5	3.5	---	---	---
28	11.5	9.5	10.5	4.5	3.5	4.0	4.5	3.5	3.5	---	---	---
29	13.0	11.0	12.0	4.5	3.0	3.5	4.0	3.0	3.5	---	---	---
30	14.5	12.5	13.0	3.5	2.5	3.0	5.0	4.0	4.5	---	---	---
31	15.5	14.0	14.5	---	---	---	4.5	3.0	4.0	---	---	---
MONTH	---	---	---	16.5	2.5	9.0	---	---	---	---	---	---

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1				---	---	---	10.0	4.5	7.0	15.0	13.0	14.0
2				---	---	---	12.0	8.0	10.0	15.0	12.0	13.0
3				---	---	---	11.0	8.0	10.0	19.5	12.0	15.5
4				---	---	---	10.5	7.0	9.0	17.5	12.0	15.5
5				---	---	---	7.5	5.5	6.5	14.0	8.5	11.0
6				---	---	---	7.5	5.5	6.5	14.5	13.5	14.0
7				---	---	---	10.0	6.0	7.5	16.5	12.5	14.5
8				---	---	---	10.5	6.0	8.0	20.0	14.5	17.0
9				---	---	---	11.5	7.0	9.5	21.5	16.0	18.5
10				---	---	---	13.0	8.0	10.5	22.0	17.5	19.5
11				---	---	---	14.0	9.0	11.5	22.0	16.0	19.0
12				5.5	5.0	---	14.0	9.5	11.5	22.0	16.5	19.0
13				7.5	5.5	6.5	11.5	8.5	10.0	20.0	15.0	18.5
14				6.5	3.5	5.0	13.0	6.5	9.5	19.0	12.0	15.0
15				5.0	2.0	3.5	10.5	9.0	9.5	21.0	18.0	19.5
16				5.0	3.5	4.5	13.5	7.5	10.5	20.0	17.5	18.5
17				8.0	4.5	6.0	19.0	10.0	14.5	21.0	17.5	19.0
18				8.5	6.0	7.0	19.5	13.5	16.5	22.0	19.0	20.0
19				9.5	7.0	8.0	20.0	16.0	18.0	20.5	17.5	---
20				9.5	8.0	9.0	19.0	14.5	17.0	---	---	---
21				7.5	5.5	6.5	18.0	12.0	15.0	---	---	---
22				8.0	7.0	7.5	19.0	11.0	15.0	---	---	---
23				10.0	7.5	8.5	21.0	12.0	16.5	---	---	---
24				9.5	7.5	8.5	19.5	15.0	17.5	---	---	---
25				10.0	7.5	8.5	19.5	17.0	18.5	---	---	---
26				10.0	7.0	9.0	18.0	16.0	17.0	---	---	---
27				6.5	4.0	5.0	17.5	15.0	16.0	---	---	---
28				6.0	3.0	4.5	18.0	13.0	15.5	---	---	---
29				6.0	4.5	5.0	14.5	12.5	14.0	---	---	---
30				7.0	5.5	6.0	17.5	11.5	14.5	---	---	---
31				6.0	4.0	5.0	---	---	---	---	---	---
MONTH				---	---	---	21.0	4.5	12.5	---	---	---

01404100 RARITAN RIVER NEAR SOUTH BOUND BROOK, N. J.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	25.0	22.0	23.0	27.5	24.5	26.0	22.0	20.0	21.0
2	---	---	---	26.0	21.5	24.0	29.0	25.5	27.5	22.5	20.5	21.0
3	23.0	21.5	---	26.0	23.0	24.5	30.0	27.0	28.5	22.5	20.0	21.5
4	23.5	20.5	22.0	26.0	22.5	24.5	28.5	26.5	27.5	22.0	19.5	21.0
5	22.5	19.5	21.5	26.5	23.0	24.5	27.5	25.5	26.5	23.0	20.0	21.5
6	19.5	17.0	18.0	25.5	23.5	24.5	27.0	23.5	25.5	22.5	21.0	21.5
7	18.5	17.0	18.0	24.5	21.5	---	23.5	21.0	22.0	---	---	---
8	18.5	18.0	18.5	26.5	23.5	25.5	22.0	20.0	21.0	---	---	---
9	20.0	17.5	18.5	26.0	24.0	25.0	24.0	20.5	22.5	---	---	---
10	22.0	18.0	20.0	26.5	23.0	24.5	26.0	21.5	23.5	22.0	21.0	---
11	22.5	19.5	21.0	26.5	24.0	25.5	25.5	23.0	24.0	21.0	19.0	19.5
12	20.5	17.0	19.0	25.5	24.5	25.0	26.5	23.5	25.0	21.0	19.5	20.0
13	20.5	16.5	18.0	24.5	23.0	---	28.0	24.5	26.0	19.5	17.5	18.5
14	20.5	19.0	20.0	---	---	---	28.0	25.0	26.5	18.5	16.5	17.5
15	22.0	20.5	21.0	---	---	---	27.5	24.5	26.0	17.5	15.5	16.5
16	22.0	20.5	21.0	23.5	22.0	---	26.0	23.5	24.5	17.5	16.0	16.5
17	22.0	20.0	21.0	25.0	23.0	24.0	23.0	22.0	22.5	19.0	16.5	17.5
18	25.0	21.5	23.0	26.0	24.0	25.0	25.0	21.5	23.0	18.5	18.0	18.0
19	26.0	24.0	25.0	26.5	25.0	25.5	25.5	22.0	24.0	19.0	18.0	18.5
20	25.0	24.0	24.5	26.5	24.0	25.5	26.0	23.0	24.5	21.0	19.0	20.0
21	25.5	22.5	24.0	25.5	22.5	24.0	25.0	22.5	24.0	21.0	20.0	20.0
22	25.5	22.5	24.0	25.0	23.0	24.0	25.5	23.0	24.5	20.5	18.5	19.5
23	26.0	22.5	24.5	25.0	23.5	24.5	25.0	22.0	23.5	19.5	17.0	18.0
24	28.0	24.0	26.0	25.5	24.5	25.0	24.0	22.0	22.5	17.0	16.0	16.5
25	27.0	25.0	26.0	25.0	22.5	23.5	23.5	21.5	22.0	16.0	15.5	15.5
26	25.5	24.0	24.5	23.0	21.5	22.5	24.5	23.0	24.0	18.0	16.0	17.0
27	24.5	22.5	23.5	23.5	21.5	22.5	26.0	24.5	25.0	19.5	18.0	18.5
28	24.0	22.0	23.0	24.5	22.0	23.0	26.0	23.5	24.5	20.5	17.5	18.5
29	23.5	22.0	22.5	25.0	23.0	24.0	25.5	22.5	24.0	19.0	17.0	18.0
30	24.0	22.0	23.0	25.5	23.0	24.5	24.5	23.0	23.5	20.0	16.5	18.0
31	---	---	---	26.0	23.0	24.5	23.0	21.0	21.5	---	---	---
MONTH	28.0	16.5	22.0	26.5	21.5	24.5	30.0	20.0	24.5	23.0	15.5	19.0

pH (UNITS), WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1				---	---	---	7.7	7.5	7.6	6.8	6.6	6.7
2				---	---	---	7.8	6.9	7.5	6.8	6.6	6.7
3				---	---	---	7.2	7.0	7.1	6.8	6.6	6.7
4				---	---	---	7.6	7.3	---	6.9	6.5	6.7
5				---	---	---	---	---	---	7.0	6.9	7.0
6				7.[illegible]	6.8	---	---	---	---	7.1	6.4	7.0
7				7.0	6.9	6.9	---	---	---	7.2	6.3	7.0
8				7.0	6.9	7.0	---	---	---	7.2	6.4	7.0
9				7.1	6.9	7.0	---	---	---	7.4	6.4	7.0
10				7.2	7.0	7.1	---	---	---	7.3	6.5	7.0
11				7.0	6.8	6.9	---	---	---	7.3	6.5	6.9
12				7.3	6.8	7.0	6.5	6.2	---	7.2	6.4	6.8
13				7.0	6.7	6.8	6.5	6.2	6.4	7.3	6.3	6.7
14				7.0	6.8	6.9	6.7	6.4	6.6	7.2	6.4	---
15				7.1	6.9	7.0	6.7	6.3	6.6	---	---	---
16				7.3	7.0	7.1	6.6	6.2	---	---	---	---
17				7.2	7.1	7.1	---	---	---	---	---	---
18				7.2	7.0	7.1	---	---	---	---	---	---
19				7.2	7.1	7.1	---	---	---	---	---	---
20				7.2	7.0	7.1	---	---	---	---	---	---
21				7.2	7.0	7.1	---	---	---	---	---	---
22				7.3	7.1	7.2	---	---	---	---	---	---
23				7.2	7.0	7.1	---	---	---	---	---	---
24				7.0	6.9	7.0	---	---	---	---	---	---
25				7.1	6.9	7.0	---	---	---	---	---	---
26				7.2	7.0	7.1	---	---	---	---	---	---
27				7.3	7.1	7.2	6.8	6.4	---	---	---	---
28				7.4	7.2	7.3	6.8	6.3	6.7	---	---	---
29				7.5	7.3	7.4	6.7	6.3	6.6	---	---	---
30				7.6	7.3	7.5	6.7	6.4	6.5	---	---	---
31				---	---	---	6.8	6.5	6.7	---	---	---
MONTH				7.6	6.7	7.1	---	---	---	---	---	---

01404100 RARITAN RIVER NEAR SOUTH BOUND BROOK, N. J.--Continued

pH (UNITS), WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1				---	---	---	8.4	7.9	8.1	7.9	7.6	7.7
2				---	---	---	8.3	7.9	8.1	7.8	7.4	7.6
3				---	---	---	8.2	7.8	8.0	8.0	7.5	7.7
4				---	---	---	7.9	7.5	7.7	7.6	7.3	7.5
5				---	---	---	7.8	7.6	7.7	7.2	6.9	7.1
6				---	---	---	7.8	7.5	7.7	7.0	6.8	6.9
7				---	---	---	8.2	7.5	7.9	7.0	6.8	6.9
8				---	---	---	8.4	7.9	8.1	7.2	6.9	7.1
9				---	---	---	8.6	8.0	8.3	7.3	7.1	7.2
10				---	---	---	8.6	8.0	8.3	7.4	7.2	7.3
11				---	---	---	9.0	8.2	8.5	7.6	7.3	7.4
12				7.6	7.3	---	9.6	8.7	9.0	7.6	7.3	7.5
13				7.8	7.4	7.6	9.7	8.4	9.0	7.5	6.9	7.2
14				7.8	7.6	7.8	9.7	8.4	9.0	7.0	6.7	6.8
15				8.0	7.6	7.7	9.4	8.4	8.9	6.8	6.6	6.8
16				8.0	7.5	7.7	9.8	8.1	8.8	7.0	6.8	6.9
17				7.9	7.6	7.7	10.2	8.4	9.2	7.0	6.8	6.9
18				8.3	7.9	8.0	10.1	8.5	9.3	7.1	6.9	7.0
19				8.0	7.8	7.9	10.0	8.4	9.1	7.1	6.9	7.0
20				7.8	7.2	7.4	10.2	8.4	9.2	7.2	7.0	7.1
21				7.7	7.3	7.5	10.1	8.5	9.3	7.1	7.0	7.1
22				7.6	7.5	7.5	9.8	8.1	9.1	7.2	7.0	7.1
23				7.8	7.5	7.7	9.5	8.1	8.8	7.3	7.0	7.2
24				7.9	7.6	7.8	9.1	8.0	8.3	7.5	7.1	7.3
25				7.8	7.5	7.7	8.1	7.9	8.0	7.1	7.0	7.1
26				8.0	7.7	7.9	8.1	7.7	7.9	7.2	6.9	7.0
27				8.0	7.7	7.9	8.0	7.8	7.9	7.4	7.0	7.2
28				8.1	7.9	8.0	8.0	7.8	7.9	7.4	7.1	7.2
29				8.2	7.8	8.0	8.1	7.9	8.0	7.4	7.2	7.3
30				8.1	7.8	8.0	8.1	7.7	7.9	7.2	7.1	7.2
31				8.3	7.8	8.0	---	---	---	7.3	7.1	7.2
MONTH				---	---	---	10.2	7.5	8.4	8.0	6.6	7.2

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	7.2	6.8	7.0	7.7	7.3	7.4	7.7	7.3	7.4	7.1	6.9	7.0
2	7.0	6.8	6.9	7.7	7.3	7.5	7.9	7.3	7.5	7.0	6.9	6.9
3	7.1	6.9	7.0	7.6	7.3	7.4	8.6	7.3	7.8	7.7	6.9	7.3
4	7.2	7.0	7.1	7.5	7.3	7.4	8.8	7.4	7.6	7.6	7.4	7.5
5	7.2	7.0	7.1	7.7	7.2	7.4	7.8	7.2	7.5	7.5	7.3	7.4
6	7.3	6.9	7.1	7.7	7.3	7.4	7.5	7.3	7.4	7.5	7.3	7.4
7	7.2	6.8	6.9	7.3	7.1	---	7.5	7.3	7.4	---	---	---
8	7.0	6.7	6.9	7.4	7.2	7.3	7.7	7.3	7.5	---	---	---
9	7.2	6.9	7.1	7.4	7.2	7.3	7.9	7.4	7.5	---	---	---
10	7.2	6.9	7.1	7.3	7.1	7.2	8.1	7.4	7.6	7.8	7.6	---
11	7.2	7.0	7.1	7.4	7.2	7.3	8.0	7.2	7.6	7.8	7.4	7.6
12	7.4	6.9	7.1	7.4	7.2	7.3	8.2	7.3	7.7	7.5	7.3	7.4
13	7.5	6.7	7.2	7.3	7.2	---	8.5	7.4	7.8	7.7	7.3	7.5
14	7.4	6.8	7.0	---	---	---	8.6	7.1	7.8	7.7	7.4	7.5
15	7.5	6.8	7.1	---	---	---	8.4	7.4	7.8	7.6	7.4	7.5
16	7.6	6.8	7.1	6.7	5.9	---	7.6	7.3	7.4	7.5	7.3	7.4
17	7.4	6.7	7.2	7.2	5.7	6.6	7.3	7.2	7.3	7.5	7.3	7.4
18	7.3	6.7	7.0	7.4	6.8	7.1	7.7	7.2	7.4	7.5	7.3	7.4
19	7.2	6.9	7.1	7.4	7.0	7.2	7.7	7.5	7.6	7.4	7.2	7.3
20	7.2	6.7	7.0	7.5	7.1	7.3	7.7	7.4	7.6	7.4	7.2	7.3
21	7.1	6.8	7.0	7.9	6.9	7.4	7.6	7.3	7.4	7.4	7.2	7.3
22	7.2	7.0	7.1	8.1	6.6	7.3	7.4	7.2	7.3	7.4	7.2	7.3
23	7.3	7.0	7.2	7.3	6.5	6.9	7.4	7.1	7.3	7.3	7.1	7.2
24	7.4	7.2	7.3	7.0	6.4	6.7	7.2	6.9	7.1	7.6	7.0	7.2
25	7.4	7.1	7.2	7.7	6.8	7.1	8.4	7.0	7.4	7.8	7.0	7.3
26	7.3	7.2	7.2	7.4	6.8	7.0	7.9	7.0	7.6	7.9	7.7	7.8
27	7.4	7.2	7.3	7.4	6.9	7.2	7.6	6.8	7.1	8.0	6.6	7.4
28	7.3	7.1	7.3	7.4	7.0	7.2	7.1	6.9	7.0	7.8	6.5	6.8
29	7.5	6.9	7.2	7.5	7.2	7.3	7.1	6.8	7.0	7.8	6.5	6.7
30	7.4	7.0	7.2	7.7	7.3	7.5	7.0	6.9	6.9	7.2	6.7	6.9
31	---	---	---	7.7	7.3	7.4	7.1	6.9	7.0	---	---	---
MONTH	7.6	6.7	7.1	8.1	5.7	7.2	8.6	6.8	7.4	8.0	6.5	7.3

01405400 MANALAPAN BROOK AT SPOTSWOOD, N. J.

LOCATION.--Lat 40°23'22", long 74°23'27", Middlesex County, .1 mi (0.2 km) downstream from gaging station at bridge on Devoe Avenue in Spotswood near confluence with Cedar Brook, and 0.5 mi (0.8 km) upstream from confluence with Matchaponix Brook.

DRAINAGE AREA.--40.7 mi² (105.4 km²).

PERIOD OF RECORD.--Chemical analyses: Water years 1971-72 (partial-record station), October 1972 to September 1975.

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	TEMPERATURE (DEG C)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TOTAL ACIDITY AS H+ (MG/L)	DISSOLVED OXYGEN (MG/L)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L)	IMMEDIATE COLIFORM (COL. PER 100 ML)	FECAL COLIFORM (EC BROTH) (MPN)
OCT. 17...	1245	144	13.5	104	5.2	--	9.8	2.6	1020	--
NOV. 20...	1300	47	8.0	118	7.0	--	10.6	1.5	200	--
MAR. 20...	1330	110	8.5	129	4.8	.2	11.5	1.9	--	23
APR. 09...	1330	61	9.5	117	5.2	--	10.7	.8	--	<2
MAY 15...	0940	100	18.0	86	9.1	--	6.3	1.9	--	170
JUNE 05...	1510	44	18.3	111	5.2	--	8.7	1.8	--	1600
JULY 10...	1330	41	23.2	88	6.0	--	7.4	1.7	--	>2400
AUG. 07...	1545	E51	20.0	123	5.9	--	8.1	.8	--	1300
SEP. 17...	1335	31	14.5	116	8.2	--	8.7	--	--	<20

DATE	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)	TURBIDITY (JTU)	COLOR (PLATINUM-COBALT UNITS)	TOTAL ORGANIC NITROGEN (N) (MG/L)	AMMONIA NITROGEN (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)
OCT. 17...	816	270	--	--	--	--	--	--	--	--
NOV. 20...	15	4	--	--	.16	.34	.00	.84	.50	1.3
MAR. 20...	48	--	30	4	--	.41	.00	1.1	--	--
APR. 09...	0	--	4	4	.00	.22	.01	1.2	.20	1.4
MAY 15...	126	--	7	1	.32	.12	.01	.66	.44	1.1
JUNE 05...	168	--	7	26	.36	.25	.01	.92	.61	1.5
JULY 10...	880	--	12	30	1.1	.26	.01	.99	1.4	2.4
AUG. 07...	--	--	12	10	.54	.30	.01	.87	.84	1.7
SEP. 17...	10	--	7	2	.29	.15	.01	1.1	.44	1.5

01405400 MANALAPAN BROOK AT SPOTSWOOD, N. J.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TOTAL PHOS-PHORUS (P) (MG/L)	TOTAL ORTHO PHOS-PHORUS (P) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	CAR-BONATE (CO3) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	TOTAL ACIDITY AS CACO3 (MG/L)	HARD-NESS (CA,MG) (MG/L)
OCT.									
17...	--	--	--	--	--	--	--	--	--
NOV.									
20...	.06	.01	3.3	--	--	--	--	--	--
MAR.									
20...	.13	.01	6.0	0	0	0	.0	10	28
APR.									
09...	.04	.00	5.6	1	0	1	10	--	34
MAY									
15...	.11	.00	3.3	0	0	0	.0	--	28
JUNE									
05...	.07	.00	6.7	2	0	2	20	--	27
JULY									
10...	.10	.01	4.9	6	0	7	11	--	28
AUG.									
07...	.06	.05	7.4	4	0	5	10	--	25
SEP.									
17...	.01	.01	--	5	0	6	.1	--	30

DATE	NON-CAR-BONATE HARD-NESS (MG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	TOTAL NON-FILT-RABLE RESIDUE (MG/L)
OCT.									
17...	--	--	--	--	--	--	--	--	--
NOV.									
20...	--	--	--	--	--	--	--	--	--
MAR.									
20...	28	7.0	2.5	6.3	3.2	12	28	73	30
APR.									
09...	34	8.2	3.4	5.1	2.0	4.5	14	32	17
MAY									
15...	28	7.1	2.5	4.1	2.0	7.5	26	74	22
JUNE									
05...	26	6.0	3.0	5.3	2.2	9.9	22	84	16
JULY									
10...	23	6.2	3.1	5.2	2.4	9.0	20	81	11
AUG.									
07...	21	6.0	2.5	5.2	2.3	9.6	21	90	11
SEP.									
17...	25	7.0	3.0	5.3	2.3	8.2	17	89	24

01408000 MANASQUAN RIVEP AT SQUANKUM, N. J.

LOCATION.--Lat 40°09'47", long 74°09'21", Monmouth County, at gaging station at bridge on N.J. Route 547 in Squankum.

DRAINAGE AREA.--43.4 mi² (112.4 km²).

PERIOD OF RECORD.--Chemical analyses: Water years 1963-68 (partial-record station), July 1969 to September 1975. Water temperatures: July 1969 to September 1974.

REMARKS.--Miscellaneous storm sediment samples collected during water years 1971-74.

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	TEMPERATURE (DEG C)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	DISSOLVED OXYGEN (MG/L)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L)	IMMEDIATE COLIFORM (COL. PER 100 ML)	FECAL COLIFORM (EC BROTH) (MPN)	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)	TURBIDITY (JTU)
OCT. 10...	1240	73	12.5	191	8.8	8.4	2.3	3300	--	680	680	--
NOV. 19...	0900	45	6.6	249	7.4	9.6	2.3	605	--	80	120	--
MAR. 14...	1045	93	5.8	205	6.8	10.8	2.8	--	350	190	--	20
APR. 17...	1000	84	11.5	178	6.7	9.2	3.4	--	920	470	--	15
MAY 12...	0940	87	14.9	177	6.9	8.1	16	--	1600	460	--	7
JUNE 04...	0905	54	16.6	220	7.1	6.3	7.4	--	2400	620	--	2
JULY 10...	0855	45	19.2	196	6.8	7.3	6.4	--	330	340	--	13

DATE	COLOR (PLATINUM-COBALT UNITS)	TOTAL ORGANIC NITROGEN (N) (MG/L)	AMMONIA NITROGEN (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL ORTHO PHOSPHORUS (P) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)	ALKALINITY AS CACO3 (MG/L)	CARBONATE (CO3) (MG/L)
OCT. 10...	--	--	--	--	--	--	--	--	--	--	--	--
NOV. 19...	--	.00	2.5	.01	.47	2.5	3.0	.25	.07	7.6	--	--
MAR. 14...	7	.50	1.1	.02	1.9	1.6	3.5	.36	.18	8.3	16	0
APR. 17...	23	.59	.61	.02	.42	1.2	1.6	.19	.00	5.7	25	0
MAY 12...	19	.36	.94	.04	.82	1.3	2.2	.20	.07	5.3	25	0
JUNE 04...	8	.40	1.1	.08	.60	1.5	2.2	.24	.01	--	54	0
JULY 10...	10	--	--	.13	.97	--	--	.19	.03	5.0	39	0

DATE	BICARBONATE (HCO3) (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	HARDNESS (CA+MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	TOTAL NONFILTRABLE RESIDUE (MG/L)
OCT. 10...	--	--	--	--	--	--	--	--	--	--	--	--
NOV. 19...	--	--	--	--	--	--	--	--	--	--	--	--
MAR. 14...	20	5.1	44	27	11	3.9	11	3.7	22	35	131	28
APR. 17...	31	9.9	49	24	17	1.6	12	2.9	20	28	130	29
MAY 12...	30	6.0	51	27	16	2.8	9.5	3.2	16	30	122	10
JUNE 04...	66	8.4	70	15	16	7.2	7.3	1.2	12	12	107	8
JULY 10...	48	12	66	26	21	3.2	10	3.5	17	31	145	11

01408500 TOMS RIVER NEAR TOMS RIVER, N. J.
(National stream-quality accounting network station)

LOCATION.--Lat 39°59'10", long 74°13'29", Ocean County, at bridge 1.9 mi (3.1 km) downstream from Union Branch and 2.6 mi (4.2 km) northwest of Toms River.

DRAINAGE AREA.--124 mi² (321 km²).

PERIOD OF RECORD.--Chemical analyses: Water years 1963-72 (Partial-record station), October 1972 to September 1975.
Water temperatures: November 1963 to May 1966, November 1974 to September 1975.

EXTREMES.--1974-75:
Specific conductance: Maximum, 83 micromhos Dec. 28, 29; minimum, 46 micromhos Apr. 3.
Water temperatures: Maximum, 25.5°C July 21, Aug. 5.

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	AIR TEMPERATURE (DEG C)	TEMPERATURE (DEG C)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TOTAL ACIDITY AS H+ (MG/L)	DISSOLVED OXYGEN (MG/L)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L)	IMMEDIATE COLIFORM (COL. PER 100 ML)	FECAL COLIFORM (EC BROTH) (MPN)
OCT. 18...	1200	224	--	12.5	71	4.9	--	9.0	.9	14700	--
NOV. 19...	0950	E115	--	--	64	5.4	--	11.2	.7	250	--
DEC. 26...	1130	254	--	4.5	78	4.2	.4	11.4	.7	116	--
JAN. 16...	1000	435	--	1.2	69	4.1	.1	12.4	8.0	1000	--
FEB. 20...	1100	295	10.7	5.0	68	4.6	.1	11.2	1.4	4	--
MAR. 19...	1300	283	--	7.0	65	4.6	.2	11.2	.8	--	5
APR. 17...	1010	226	--	9.7	66	4.7	--	10.4	2.2	--	23
MAY 23...	1040	233	--	19.5	50	4.6	--	7.8	1.8	--	240
JUNE 12...	1000	222	--	16.5	57	3.9	.2	6.7	.9	--	540
JULY 25...	1000	E230	--	23.2	66	4.8	.5	7.2	--	--	--
AUG. 12...	1015	120	--	22.0	--	5.5	--	8.1	1.1	--	49
SEP. 18...	1030	110	--	16.2	72	6.4	--	9.4	1.1	--	33

DATE	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)	TURBIDITY (JTU)	COLOR (PLATINUM-COBALT UNITS)	TOTAL ORGANIC NITROGEN (N) (MG/L)	AMMONIA NITROGEN (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)
OCT. 18...	700	330	4	--	.01	.17	.00	.15	.18	.33	.03
NOV. 19...	0	76	2	--	.00	.26	.00	.39	.26	.65	.04
DEC. 26...	6	46	2	--	.19	.11	.01	.27	.30	.58	.02
JAN. 16...	0	12	3	--	.22	.16	.00	.12	.38	.50	.02
FEB. 20...	4	--	2	--	.11	.13	.00	.28	.24	.52	.02
MAR. 19...	2	10	2	--	.15	.11	.00	.24	.26	.50	.02
APR. 17...	<2	--	1	20	.18	.08	.01	.38	.26	.65	.03
MAY 23...	30	700	3	150	.60	.10	.01	.25	.70	.96	.08
JUNE 12...	70	640	2	100	.22	.09	.01	.31	.31	.63	.06
JULY 25...	114	540	2	230	.65	.11	.01	.22	.76	.99	.09
AUG. 12...	162	784	3	85	.57	.03	.01	.47	.60	1.1	.06
SEP. 18...	40	--	5	20	.20	.03	.00	.51	.23	.74	.05

01408500 TOMS RIVER NEAR TOMS RIVER, N. J.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TOTAL ORTHO PHOS-PHORUS (P) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	CAR-BONATE (CO3) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	TOTAL ACIDITY AS CACO3 (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)
OCT.										
18...	.01	10	0	0	0	.0	--	14	14	3.3
NOV.										
19...	.01	7.2	0	0	0	.0	--	10	10	2.3
DEC.										
26...	.01	10	0	0	0	.0	20	11	11	2.5
JAN.										
16...	.01	11	0	0	0	.0	5.0	10	10	2.5
FEB.										
20...	.01	5.1	0	0	0	.0	5.0	25	25	7.0
MAR.										
19...	.01	6.7	0	0	0	.0	10	11	11	3.0
APR.										
17...	.01	4.7	--	0	--	--	--	8	--	2.3
MAY										
23...	.03	10	--	0	--	--	--	12	--	2.5
JUNE										
12...	.03	8.3	0	0	0	.0	10	12	12	2.0
JULY										
25...	.04	19	0	0	0	.0	25	11	11	2.6
AUG.										
12...	.05	11	1	0	1	5.1	--	12	12	2.5
SEP.										
10...	.02	5.7	1	0	1	.6	--	16	15	5.0

DATE	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	TOTAL NON-FILT-RABLE RESIDUE (MG/L)
OCT.										
18...	1.3	4.3	1.5	7.5	14	.1	4.8	51	37	--
NOV.										
19...	1.1	5.8	1.3	6.6	9.3	.1	3.6	53	30	--
DEC.										
26...	1.1	4.5	.8	7.0	24	.0	4.2	43	45	--
JAN.										
16...	1.0	3.7	1.0	4.5	10	.1	3.6	50	27	--
FEB.										
20...	1.3	3.5	.8	8.9	9.9	.1	3.5	17	36	--
MAR.										
19...	.8	4.3	1.0	6.9	11	.2	3.0	42	30	--
APR.										
17...	.5	3.6	.9	3.4	5.7	.0	1.4	31	--	2
MAY										
23...	1.3	4.6	1.1	7.7	9.0	--	--	53	--	8
JUNE										
12...	1.1	4.1	1.1	8.7	6.0	.2	4.4	42	30	11
JULY										
25...	1.0	4.2	.9	7.3	7.0	.2	5.6	68	30	11
AUG.										
12...	1.5	4.9	1.1	4.0	11	.3	5.8	60	34	7
SEP.										
10...	.8	4.9	1.1	5.7	12	.2	5.3	31	36	13

01408500 TOMS RIVER NEAR TOMS RIVER, N. J.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TOTAL IRON (FE) (UG/L)	DIS-SOLVED IRON (FE) (UG/L)	TOTAL MAN-GANESE (MN) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	SUS-PENDED MAN-GANESE (MN) (UG/L)	TOTAL ARSENIC (AS) (UG/L)	DIS-SOLVED ARSENIC (AS) (UG/L)	SUS-PENDED ARSENIC (AS) (UG/L)	TOTAL CAD-MIUM (CD) (UG/L)	DIS-SOLVED CAD-MIUM (CD) (UG/L)	SUS-PENDED CAD-MIUM (CD) (UG/L)
DEC. 26...	740	540	60	60	0	0	0	0	1	1	0
MAR. 19...	400	340	40	30	10	0	0	0	0	0	0
JUNE 12...	1500	1200	40	40	0	1	1	0	1	1	0
SEP. 18...	930	620	30	20	10	0	0	0	0	0	0

DATE	TOTAL CHRO-MIUM (CR) (UG/L)	DIS-SOLVED CHRO-MIUM (CR) (UG/L)	SUS-PENDED CHRO-MIUM (CR) (UG/L)	TOTAL COBALT (CO) (UG/L)	DIS-SOLVED COBALT (CO) (UG/L)	SUS-PENDED COBALT (CO) (UG/L)	TOTAL COPPER (CU) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)	SUS-PENDED COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)
DEC. 26...	10	0	10	0	0	0	0	0	0	5	5
MAR. 19...	0	0	0	1	1	0	0	0	0	4	3
JUNE 12...	40	40	0	1	0	1	20	20	0	13	13
SEP. 18...	0	0	0	0	0	0	10	10	0	5	5

DATE	SUS-PENDED LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)	DIS-SOLVED MERCURY (HG) (UG/L)	SUS-PENDED MERCURY (HG) (UG/L)	TOTAL SELE-NIUM (SE) (UG/L)	DIS-SOLVED SELE-NIUM (SE) (UG/L)	SUS-PENDED SELE-NIUM (SE) (UG/L)	TOTAL ZINC (ZN) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)	SUS-PENDED ZINC (ZN) (UG/L)
DEC. 26...	0	<.5	<.5	.0	0	0	0	40	30	10
MAR. 19...	1	<.5	<.5	.0	1	0	1	30	20	10
JUNE 12...	0	.6	.6	.0	0	0	0	110	110	0
SEP. 18...	0	<.5	<.5	.0	0	0	0	20	20	0

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT

DATE	TIME	TEMPER-ATURE (DEG C)	INSTAN-TANEOUS DIS-CHARGE (CFS)	SUS-PENDED SEDI-MENT (MG/L)	SUS-PENDED SEDI-MENT DIS-CHARGE (T/DAY)	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM
OCT., 1974 18...	1200	12.5	226	7	4.2	100
NOV. 19...	0950	--	E115	6	--	100
DEC. 26...	1130	4.5	256	7	4.8	63
JAN., 1975 16...	1000	1.2	435	9	11	64
FEB. 28...	1100	5.0	295	2	1.6	100
MAR. 19...	1300	7.0	283	2	1.5	100
APR. 17...	1010	9.7	276	2	1.2	100
MAY 23...	1040	19.5	233	8	5.0	100
JUNE 12...	1000	16.5	222	6	3.6	100
JULY 25...	1000	23.2	E230	38	--	97
AUG. 12...	1015	22.0	120	13	4.5	63
SEP. 18...	1030	16.2	110	7	2.1	100

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA
WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

PERIPHYTON

DATE	EXPOSURE LENGTH (DAYS)	BIOMASS DRY WEIGHT (G/SQ M)	BIOMASS ASH WEIGHT (G/SQ M)	CHLORO-PHYLL A (MG/SQ M)	CHLORO-PHYLL B (MG/SQ M)	BIOMASS PIGMENT RATIO	SAMPLING METHOD
FEB. 28...	35	1.8	.90	.1	.1	9000	POLY-ETHYLENE STRIP
MAR. 19...	27	--	--	2.2	.4	--	
JUNE 24...	32	4.4	2.5	1.4	.1	1300	

OCT. 18, 1974
1200 HOURS

IDENTIFICATION OF PHYTOPLANKTON

1,100 CELLS/ML

_ORGANISM__NAME	_COMMON__NAME	CELLS/ML	PER_CENT
CHLOROPHYTA	GREEN ALGAE		
.CHLOROPHYCEAE			
..CHLOROCOCCALES			
...OOCYSTACEAE			
....ANKISTRODESMUS		11	1
CHRYSOPHYTA			
.BACILLARIOPHYCEAE	DIATOMS		
..CENTRALES	CENTRIC		
...COSCINODISCACEAE			
....CYCLOTELLA		54	5
..PENNALES	PENNATE		
...ACHNANTHACEAE			
....ACHNANTHES		11	1
...EUNOTIACEAE			
....EUNOTIA		22	2
...NAVICULACEAE	NAVICULOID		
....NAVICULA		140	13
...NITZSCHIACEAE			
....NITZSCHIA		33	3
CYANOPHYTA	BLUE-GREEN ALGAE		
.MYXOPHYCEAE			
..OSCILLATORIALES	FILAMENTOUS		
...OSCILLATORIACEAE			
D ....LYNGBYA		810	73
EUGLENOPHYTA	EUGLENOIDS		
.CRYPTOPHYCEAE	CRYPTOMONADS		
..CRYPTOMONIDALES			
...CRYPTOMONODACEAE			
....CRYPTOMONAS		33	3

NOTE: D - DOMINANT ORGANISM: GREATER OR EQUAL TO 15%
ANALYSIS METHOD: SEDGWICK-RAFTER CHAMBER , 200-X MICROSCOPE
DIVERSITY INDICES, BASED ON ACTUAL COUNTS:
PHYL/DIV 1.036
CLASS 1.036
ORDER 1.208
FAMILY 1.459
GENERA 1.459

NOV. 19, 1974
0950 HOURS

IDENTIFICATION OF PHYTOPLANKTON

330 CELLS/ML

_ORGANISM__NAME	_COMMON__NAME	CELLS/ML	PER_CENT
CHLOROPHYTA	GREEN ALGAE		
.CHLOROPHYCEAE			
..VOLVOCALES			
...CHLAMYDOMONADACEAE			
....CHLAMYDOMONAS		7	2
CHRYSOPHYTA			
.BACILLARIOPHYCEAE	DIATOMS		
..PENNALES	PENNATE		
...CYMBELLACEAE			
....EPITHEMIA		7	2
...DIATOMACEAE			
....DIATOMA		29	9
...NAVICULACEAE	NAVICULOID		
....NAVICULA		36	11
CYANOPHYTA	BLUE-GREEN ALGAE		
.MYXOPHYCEAE			
..OSCILLATORIALES	FILAMENTOUS		
...OSCILLATORIACEAE			
D ....LYNGBYA		250	76

NOTE: D - DOMINANT ORGANISM: GREATER OR EQUAL TO 15%
ANALYSIS METHOD: SEDGWICK-RAFTER CHAMBER , 200-X MICROSCOPE
DIVERSITY INDICES, BASED ON ACTUAL COUNTS:
PHYL/DIV 0.899
CLASS 0.899
ORDER 0.899
FAMILY 1.195
GENERA 1.195

01408500 TOMS RIVER NEAR TOMS RIVER, N. J.--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA
WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DEC. 26, 1974
1130 HOURS

IDENTIFICATION OF PHYTOPLANKTON

140 CELLS/ML

	_ORGANISM__NAME	_COMMON__NAME	CELLS/ML	PER_CENT
	CHLOROPHYTA	GREEN ALGAE		
	.CHLOROPHYCEAE			
	..CHLOROCOCCALES			
	...OOCYSTACEAE			
	....ANKISTRODESMUS		7	5
	CHRYSOPHYTA			
	.BACILLARIOPHYCEAE	DIATOMS		
	..PENNALES	PENNATE		
	...ACHNANTHACEAE			
	....ACHNANTHES		14	11
	...EUNOTIACEAE			
D	....EUNOTIA		21	16
	...FRAGILARIACEAE			
D	....FRAGILARIA		57	42
	...NAVICULACEAE	NAVICULOID		
D	....NAVICULA		21	16
	...NITZSCHIACEAE			
	....NITZSCHIA		14	11

NOTE: D - DOMINANT ORGANISM, GREATER OR EQUAL TO 15%
ANALYSIS METHOD: SEDGWICK-RAFTER CHAMBER , 200-X MICROSCOPE
DIVERSITY INDICES, BASED ON ACTUAL COUNTS:
PHYL/DIV 0.297
CLASS 0.297
ORDER 0.297
FAMILY 2.274
GENERA 2.274

JAN. 16, 1975
1000 HOURS

IDENTIFICATION OF PHYTOPLANKTON

130 CELLS/ML

	_ORGANISM__NAME	_COMMON__NAME	CELLS/ML	PER_CENT
	CHRYSOPHYTA			
	.BACILLARIOPHYCEAE	DIATOMS		
	..CENTRALES	CENTRIC		
	...COSCINODISCACEAE			
	....CYCLOTELLA		17	12
	..PENNALES	PENNATE		
	...CYMBELLACEAE			
	....CYMBELLA		17	12
	...EUNOTIACEAE			
D	....EUNOTIA		66	50
	...NAVICULACEAE	NAVICULOID		
D	....ANOMOEONEIS		33	25

NOTE: D - DOMINANT ORGANISM, GREATER OR EQUAL TO 15%
ANALYSIS METHOD: SEDGWICK-RAFTER CHAMBER , 200-X MICROSCOPE
DIVERSITY INDICES, BASED ON ACTUAL COUNTS:
ORDER 0.944
FAMILY 1.750
GENERA 1.750

FEB. 20, 1975
1100 HOURS

IDENTIFICATION OF PHYTOPLANKTON

360 CELLS/ML

	_ORGANISM__NAME	_COMMON__NAME	CELLS/ML	PER_CENT
	CHLOROPHYTA	GREEN ALGAE		
	.CHLOROPHYCEAE			
	..CHLOROCOCCALES			
	...OOCYSTACEAE			
	....ANKISTRODESMUS		32	9
	...SCENEDESMACEAE			
	....SCENEDESMUS		16	5
	..VOLVOCALES			
	...CHLAMYDOMONADACEAE			
	....CHLAMYDOMONAS		16	5
	CHRYSOPHYTA			
	.BACILLARIOPHYCEAE	DIATOMS		
	..PENNALES	PENNATE		
	...EUNOTIACEAE			
D	....EUNOTIA		240	68
	...NAVICULACEAE	NAVICULOID		
	....NAVICULA		32	9
	.CHRYSOPHYCEAE	YELLOW-BROWN ALGAE		
	..CHRYSOMONADALES			
	...OCHROMONADACEAE			
	....DINOBRYON		16	5

NOTE: D - DOMINANT ORGANISM, GREATER OR EQUAL TO 15%
ANALYSIS METHOD: SEDGWICK-RAFTER CHAMBER , 200-X MICROSCOPE
DIVERSITY INDICES, BASED ON ACTUAL COUNTS:
PHYL/DIV 0.604
CLASS 0.937
ORDER 1.085
FAMILY 1.614
GENERA 1.614

01408500 TOMS RIVER NEAR TOMS RIVER, N. J.--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA
WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

MAR. 19, 1975
1300 HOURS

IDENTIFICATION OF PHYTOPLANKTON

46 CELLS/ML

	_ORGANISM__NAME_____________	_COMMON__NAME______	CELLS/ML	PER_CENT
	CHRYSOPHYTA			
	.BACILLARIOPHYCEAE	DIATOMS		
	..CENTRALES	CENTRIC		
	...COSCINODISCACEAE			
D	....MELOSIRA		26	56
	..PENNALES	PENNATE		
	...EUNOTIACEAE			
D	....EUNOTIA		20	44

NOTE: D - DOMINANT ORGANISM: GREATER OR EQUAL TO 15%
ANALYSIS METHOD: SEDGWICK-RAFTER CHAMBER , 200-X MICROSCOPE
DIVERSITY INDICES, BASED ON ACTUAL COUNTS:
ORDER 0.991
FAMILY 0.991
GENERA 0.991

APR. 17, 1975
1010 HOURS

IDENTIFICATION OF PHYTOPLANKTON

310 CELLS/ML

	_ORGANISM__NAME_____________	_COMMON__NAME______	CELLS/ML	PER_CENT
	CHLOROPHYTA	GREEN ALGAE		
	.CHLOROPHYCEAE			
	..CHLOROCOCCALES			
	...OOCYSTACEAE			
	....CHLORELLA		28	9
	CHRYSOPHYTA			
	.BACILLARIOPHYCEAE	DIATOMS		
	..PENNALES	PENNATE		
	...EUNOTIACEAE			
D	....EUNOTIA		180	58
	...FRAGILARIACEAE			
D	....FRAGILARIA		93	30
	...NAVICULACEAE	NAVICULOID		
	....DIPLONEIS		9	3

NOTE: D - DOMINANT ORGANISM: GREATER OR EQUAL TO 15%
ANALYSIS METHOD: SEDGWICK-RAFTER CHAMBER , 200-X MICROSCOPE
DIVERSITY INDICES, BASED ON ACTUAL COUNTS:
PHYL/DIV 0.439
CLASS 0.439
ORDER 0.439
FAMILY 1.448
GENERA 1.448

MAY 23, 1975
1040 HOURS

IDENTIFICATION OF PHYTOPLANKTON

190 CELLS/ML

	_ORGANISM__NAME_____________	_COMMON__NAME______	CELLS/ML	PER_CENT
	CHRYSOPHYTA			
	.BACILLARIOPHYCEAE	DIATOMS		
	..PENNALES	PENNATE		
	...CYMBELLACEAE			
	....CYMBELLA		9	5
	....EPITHEMIA		19	10
	...EUNOTIACEAE			
D	....EUNOTIA		47	25
	...FRAGILARIACEAE			
D	....FRAGILARIA		28	15
	....SYNEDRA		19	10
	...NAVICULACEAE	NAVICULOID		
	....NAVICULA		9	5
	...NITZSCHIACEAE			
	....NITZSCHIA		9	5
	...TABELLARIACEAE			
D	....TABELLARIA		28	15
	PYRRHOPHYTA			
	.DINOPHYCEAE	DINOFLAGELLATES		
	..PERIDINIALES			
	...GLENODINIACEAE			
	....GLENODINIUM		19	10

NOTE: D - DOMINANT ORGANISM: GREATER OR EQUAL TO 15%
ANALYSIS METHOD: SEDGWICK-RAFTER CHAMBER , 200-X MICROSCOPE
DIVERSITY INDICES, BASED ON ACTUAL COUNTS:
PHYL/DIV 0.469
CLASS 0.469
ORDER 0.469
FAMILY 2.505
GENERA 2.966

01408500 TOMS RIVER NEAR TOMS RIVER, N. J.--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA
WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

JUNE 12, 1975
1000 HOURS

IDENTIFICATION OF PHYTOPLANKTON

200 CELLS/ML

	_ORGANISM__NAME	_COMMON__NAME	CELLS/ML	PER_CENT
	CHRYSOPHYTA			
	.BACILLARIOPHYCEAE	DIATOMS		
	..CENTRALES	CENTRIC		
	...COSCINODISCACEAE			
	....MELOSIRA		29	11
	..PENNALES	PENNATE		
	...CYMBELLACEAE			
	....CYMBELLA		14	6
	...EUNOTIACEAE			
D	....EUNOTIA		43	17
	...FRAGILARIACEAE			
D	....FRAGILARIA		72	28
	....SYNEDRA		14	6
	...NAVICULACEAE	NAVICULOID		
	....FRUSTULIA		29	11
	....NAVICULA		29	11
	...TABELLARIACEAE			
	....TABELLARIA		29	11

NOTE: D - DOMINANT ORGANISM: GREATER OR EQUAL TO 15%
ANALYSIS METHOD: SEDGWICK-RAFTER CHAMBER , 200-X MICROSCOPE
DIVERSITY INDICES, BASED ON ACTUAL COUNTS:
ORDER 0.593
FAMILY 2.377
GENERA 2.816

JULY 25, 1975
1000 HOURS

IDENTIFICATION OF PHYTOPLANKTON

450 CELLS/ML

	_ORGANISM__NAME	_COMMON__NAME	CELLS/ML	PER_CENT
	CHRYSOPHYTA			
	.BACILLARIOPHYCEAE	DIATOMS		
	..CENTRALES	CENTRIC		
	...COSCINODISCACEAE			
L	....CYCLOTELLA			0
	....MELOSIRA		11	2
	..PENNALES	PENNATE		
	...CYMBELLACEAE			
	....CYMBELLA		21	5
	...EUNOTIACEAE			
	....EUNOTIA		32	7
	...FRAGILARIACEAE			
D	....FRAGILARIA		230	51
	....SYNEDRA		21	5
	...NAVICULACEAE	NAVICULOID		
	....NAVICULA		53	12
	...TABELLARIACEAE			
L	....TABELLARIA			0
	CYANOPHYTA	BLUE-GREEN ALGAE		
	.MYXOPHYCEAE			
	..OSCILLATORIALES	FILAMENTOUS		
	...NOSTOCACEAE			
L	....ANABAENA			0
	...OSCILLATORIACEAE			
D	....PHORMIDIUM		84	19

NOTE: D - DOMINANT ORGANISM: GREATER OR EQUAL TO 15%
L - LESS THEN 1%: MAY NOT HAVE BEEN ACTUALLY COUNTED
ANALYSIS METHOD: SEDGWICK-RAFTER CHAMBER , 200-X MICROSCOPE
DIVERSITY INDICES, BASED ON ACTUAL COUNTS:
PHYL/DIV 0.693
CLASS 0.693
ORDER 0.845
FAMILY 1.882
GENERA 2.113

AUG. 12, 1975
1015 HOURS

IDENTIFICATION OF PHYTOPLANKTON

120 CELLS/ML

	_ORGANISM__NAME	_COMMON__NAME	CELLS/ML	PER_CENT
	CHRYSOPHYTA			
	.BACILLARIOPHYCEAE	DIATOMS		
	..PENNALES	PENNATE		
	...EUNOTIACEAE			
D	....EUNOTIA		120	100

NOTE: D - DOMINANT ORGANISM: GREATER OR EQUAL TO 15%
ANALYSIS METHOD: SEDGWICK-RAFTER CHAMBER , 200-X MICROSCOPE

01408500 TOMS RIVER NEAR TOMS RIVER, N. J.--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA
WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

SEP. 18, 1975
1020 HOURS

IDENTIFICATION OF PHYTOPLANKTON

150 CELLS/ML

	_ORGANISM__NAME_	_COMMON__NAME_	CELLS/ML	PER_CENT
	CHLOROPHYTA	GREEN ALGAE		
	.CHLOROPHYCEAE			
	..CHLOROCOCCALES			
	...OOCYSTACEAE			
L	....ANKISTRODESMUS			0
	CHRYSOPHYTA			
	.BACILLARIOPHYCEAE	DIATOMS		
	..PENNALES	PENNATE		
	...ACHNANTHACEAE			
	....ACHNANTHES		9	6
L	....COCCONEIS			0
	...CYMBELLACEAE			
	....CYMBELLA		14	10
	...EUNOTIACEAE			
D	....EUNOTIA		57	39
	...GOMPHONEMATACEAE			
D	....GOMPHONEMA		28	19
	...NAVICULACEAE	NAVICULOID		
	....NAVICULA		5	3
	....PINNULARIA		9	6
	...NITZSCHIACEAE			
	....NITZSCHIA		14	10
	CYANOPHYTA	BLUE-GREEN ALGAE		
	.MYXOPHYCEAE			
	..OSCILLATORIALES	FILAMENTOUS		
	...NOSTOCACEAE			
	....ANABAENA		9	6
	EUGLENOPHYTA	EUGLENOIDS		
	.EUGLENOPHYCEAE			
	..EUGLENALES			
	...EUGLENACEAE			
L	....TRACHELOMONAS			0

NOTE: D - DOMINANT ORGANISM: GREATER OR EQUAL TO 15%
L - LESS THEN 1%: MAY NOT HAVE BEEN ACTUALLY COUNTED
ANALYSIS METHOD: SEDGWICK-RAFTER CHAMBER , 200-X MICROSCOPE
DIVERSITY INDICES, BASED ON ACTUAL COUNTS:

PHYL/DIV 0.345
CLASS 0.345
ORDER 0.345
FAMILY 2.477
GENERA 2.566

TOMS RIVER BASIN

01408500 TOMS RIVER NEAR TOMS RIVER, N. J.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS AT 25°C), WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1				---	---	---	78	68	70	79	62	72
2				---	---	---	76	67	71	65	61	63
3				---	---	---	76	72	75	80	65	70
4				---	---	---	79	75	78	82	67	---
5				---	---	---	80	79	80	---	---	---
6				---	---	---	81	79	80	---	---	---
7				---	---	---	80	77	79	---	---	---
8				---	---	---	79	76	77	---	---	---
9				---	---	---	77	74	76	---	---	---
10				---	---	---	75	74	75	---	---	---
11				---	---	---	76	74	76	---	---	---
12				---	---	---	78	75	76	---	---	---
13				---	---	---	79	70	76	---	---	---
14				---	---	---	77	75	76	---	---	---
15				---	---	---	77	73	75	---	---	---
16				---	---	---	77	60	70	---	---	---
17				---	---	---	65	61	62	---	---	---
18				---	---	---	73	61	67	---	---	---
19				---	---	---	73	72	73	---	---	---
20				---	---	---	---	---	---	---	---	---
21				---	---	---	---	---	---	---	---	---
22				71	68	---	---	---	---	---	---	---
23				69	67	68	---	---	---	---	---	---
24				69	67	68	---	---	---	---	---	---
25				75	68	69	---	---	---	---	---	---
26				71	68	69	---	---	---	---	---	---
27				70	68	69	80	71	---	---	---	---
28				69	62	66	83	70	73	---	---	---
29				73	63	67	83	71	72	---	---	---
30				70	65	67	75	68	72	---	---	---
31				---	---	---	80	72	76	---	---	---
MONTH				---	---	---	---	---	---	---	---	---

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---		69	68	68	53	50	51	65	62	63
2	---	---		69	67	68	51	48	49	66	63	64
3	---	---		69	67	68	63	46	55	66	60	63
4	---	---		68	67	68	62	58	60	62	55	58
5	---	---		69	67	68	59	58	59	62	57	59
6	---	---		69	67	68	61	59	60	59	58	59
7	---	---		68	67	67	64	61	62	61	58	59
8	---	---		68	67	67	63	61	62	61	59	60
9	---	---		67	66	66	64	62	63	62	60	61
10	---	---		69	64	66	65	61	63	63	61	62
11	---	---		67	65	67	63	61	62	62	61	62
12	---	---		69	65	66	62	61	62	61	60	60
13	---	---		67	65	66	62	60	61	63	60	61
14	---	---		68	66	67	62	60	61	65	59	62
15	---	---		67	66	67	61	60	61	63	59	61
16	---	---		68	67	67	62	59	60	60	56	57
17	---	---		69	67	68	61	60	60	58	55	56
18	---	---		70	68	69	61	59	60	57	55	56
19	---	---		70	69	69	64	60	62	59	56	57
20	---	---		70	67	69	64	63	64	60	56	58
21	---	---		68	66	67	64	62	63	61	58	59
22	---	---		67	65	65	64	60	61	63	59	61
23	---	---		66	64	65	63	60	62	63	60	61
24	---	---		65	61	63	65	63	64	64	61	62
25	---	---		63	60	61	64	61	63	62	59	60
26	---	---		60	58	59	62	59	60	60	58	59
27	---	---		59	57	58	59	58	58	62	59	60
28	69	67		57	56	56	60	59	59	61	58	59
29	---	---		56	55	55	61	59	60	61	59	60
30	---	---		56	53	55	63	61	62	61	59	60
31	---	---		54	52	53	---	---	---	63	60	62
MONTH	---	---		70	52	65	65	46	60	66	55	60

01408500 TOMS RIVER NEAR TOMS RIVER, N. J.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS AT 25°C), WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	63	61	62	63	59	61	69	65	66	---	---	---
2	61	59	60	63	59	60	68	66	67	---	---	---
3	59	58	58	65	58	61	68	66	67	---	---	---
4	61	58	59	64	61	62	74	67	69	---	---	---
5	61	59	60	64	62	63	73	61	63	75	69	---
6	61	58	59	63	61	62	63	60	62	71	70	70
7	61	58	59	63	61	62	65	59	60	71	70	70
8	59	57	58	65	59	62	63	59	60	73	70	72
9	62	57	59	62	60	61	62	58	60	73	71	---
10	61	58	59	63	60	61	63	61	62	---	---	---
11	62	58	59	59	58	59	65	62	63	---	---	---
12	60	57	59	60	55	58	69	63	65	---	---	---
13	58	55	57	56	49	55	69	66	67	---	---	---
14	57	54	55	54	52	53	77	66	71	---	---	---
15	59	57	59	55	51	53	74	66	69	---	---	---
16	63	58	60	55	54	54	70	59	64	---	---	---
17	66	60	63	56	54	55	62	59	60	---	---	---
18	66	63	64	58	56	57	64	62	63	---	---	---
19	67	63	64	59	57	58	65	61	64	74	69	71
20	70	63	65	60	59	59	70	61	64	70	69	69
21	65	63	64	60	57	59	68	62	64	75	69	70
22	65	62	64	59	57	59	---	---	---	76	70	71
23	69	64	65	58	56	57	---	---	---	73	64	69
24	70	65	67	57	56	57	---	---	---	67	64	65
25	69	67	68	59	57	58	---	---	---	73	68	71
26	71	67	68	59	56	57	---	---	---	76	73	74
27	68	66	66	60	58	59	---	---	---	78	75	77
28	69	65	66	63	58	60	---	---	---	76	74	74
29	66	64	65	65	61	63	---	---	---	79	73	74
30	65	59	63	65	61	63	---	---	---	74	72	72
31	---	---	---	67	62	65	---	---	---	---	---	---
MONTH	71	54	62	67	49	59	---	---	---	---	---	---

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1				---	---	---	6.5	5.0	---	6.5	3.5	5.0
2				---	---	---	7.0	7.0	7.0	6.0	4.0	5.0
3				---	---	---	7.0	6.0	7.0	4.0	2.5	---
4				---	---	---	5.5	4.0	4.5	---	---	---
5				---	---	---	4.0	2.5	3.0	---	---	---
6				---	---	---	3.0	2.5	2.5	---	---	---
7				---	---	---	5.0	2.5	3.0	---	---	---
8				---	---	---	8.0	5.0	6.5	---	---	---
9				---	---	---	8.0	7.0	7.5	---	---	---
10				---	---	---	7.0	4.5	5.5	---	---	---
11				---	---	---	4.5	3.5	4.0	---	---	---
12				---	---	---	4.5	3.5	4.0	---	---	---
13				---	---	---	5.0	4.5	4.5	---	---	---
14				---	---	---	5.5	4.5	5.0	---	---	---
15				---	---	---	5.0	4.5	5.0	---	---	---
16				---	---	---	7.5	5.0	6.0	---	---	---
17				---	---	---	7.5	7.0	7.0	---	---	---
18				---	---	---	7.0	4.5	5.5	---	---	---
19				---	---	---	4.5	3.5	4.0	---	---	---
20				---	---	---	---	---	---	---	---	---
21				---	---	---	---	---	---	---	---	---
22				7.0	6.0	---	---	---	---	---	---	---
23				6.5	5.0	5.5	---	---	---	---	---	---
24				7.0	5.0	6.0	---	---	---	---	---	---
25				8.0	6.5	7.5	---	---	---	---	---	---
26				7.0	4.5	6.0	---	---	---	---	---	---
27				4.5	3.5	4.0	5.0	4.0	---	---	---	---
28				4.5	3.0	3.5	4.5	3.5	4.5	---	---	---
29				4.5	3.5	4.0	4.5	4.0	4.0	---	---	---
30				---	---	---	7.5	4.5	6.0	---	---	---
31				---	---	---	6.0	4.0	5.0	---	---	---
MONTH				---	---	---	---	---	---	---	---	---

01408500 TOMS RIVER NEAR TOMS RIVER, N. J.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---		6.0	5.5	6.0	9.5	7.0	9.0	13.5	12.0	13.0
2	---	---		5.5	4.5	5.0	10.5	9.0	9.5	12.5	11.5	12.0
3	---	---		4.5	3.5	4.0	10.5	9.0	10.0	14.5	11.5	13.0
4	---	---		4.5	3.5	4.0	8.5	6.0	7.0	14.0	12.5	13.5
5	---	---		4.5	3.5	4.0	5.5	4.0	5.0	13.0	11.5	12.5
6	---	---		5.0	4.0	4.5	6.0	4.5	5.0	14.0	12.5	13.0
7	---	---		6.5	5.0	5.5	7.0	4.5	6.0	15.0	13.0	14.0
8	---	---		7.0	6.0	6.0	8.0	6.0	7.0	16.0	14.0	15.0
9	---	---		6.0	5.5	6.0	9.5	7.0	8.0	16.5	15.0	15.5
10	---	---		6.5	4.5	5.5	10.5	8.0	9.0	17.0	15.5	16.0
11	---	---		5.5	4.0	5.0	10.5	9.0	9.5	16.5	14.5	15.5
12	---	---		7.5	4.5	6.5	10.0	9.0	9.5	18.0	15.5	16.5
13	---	---		7.0	5.5	6.0	9.5	8.0	9.0	19.0	17.5	18.0
14	---	---		7.0	5.5	6.0	10.5	7.5	9.0	19.5	17.5	18.5
15	---	---		6.5	5.5	6.0	9.5	9.0	9.5	19.0	18.0	18.5
16	---	---		6.0	5.0	5.5	10.0	8.5	9.5	19.0	18.0	18.5
17	---	---		6.5	5.5	6.0	12.5	9.5	11.0	18.5	16.5	18.0
18	---	---		6.5	6.5	6.5	12.5	11.5	12.0	18.0	17.0	18.0
19	---	---		8.0	6.5	7.0	14.0	12.5	13.0	19.0	17.0	18.0
20	---	---		9.5	7.5	8.5	14.0	12.5	13.0	20.5	18.0	19.0
21	---	---		8.5	7.5	8.0	13.5	11.5	12.5	20.5	19.0	19.5
22	---	---		9.0	8.0	8.5	12.5	11.0	12.0	21.0	19.5	20.0
23	---	---		10.0	8.5	9.5	13.0	10.5	12.0	21.0	19.5	20.5
24	---	---		9.5	9.0	9.0	14.0	12.5	13.0	23.5	20.5	21.5
25	---	---		10.5	9.0	10.0	15.0	13.5	14.0	22.0	18.0	20.0
26	---	---		10.5	9.5	10.0	15.0	13.5	14.0	18.0	17.0	18.0
27	---	---		8.5	7.0	8.0	14.5	12.5	13.5	20.5	18.0	19.0
28	6.5	5.5		7.0	7.0	7.0	14.0	12.0	13.0	21.5	19.0	20.0
29	---	---		7.5	7.0	7.0	13.5	12.5	13.0	20.0	18.5	19.5
30	---	---		8.0	7.5	7.5	14.0	12.0	13.0	19.5	18.5	19.0
31	---	---		8.0	7.5	8.0	---	---	---	21.5	18.5	19.5
MONTH	---	---		10.5	3.5	6.5	15.0	4.0	10.5	23.5	11.5	17.0

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	20.5	19.5	20.0	20.5	18.5	19.5	24.0	22.0	23.0	---	---	---
2	21.5	19.0	20.0	21.5	18.5	20.0	25.0	22.0	23.5	---	---	---
3	20.5	19.0	19.5	21.5	19.5	20.5	25.0	23.0	24.0	---	---	---
4	20.0	18.5	19.0	22.0	19.5	20.5	24.5	23.5	24.0	---	---	---
5	19.5	18.5	19.0	21.5	19.5	20.5	25.5	23.5	24.0	20.0	18.0	---
6	19.0	18.0	18.5	21.0	20.0	20.5	24.0	22.0	23.0	19.5	17.5	18.5
7	19.0	17.5	18.5	21.5	20.0	20.5	22.0	19.5	20.5	19.0	18.5	19.0
8	18.5	16.5	17.5	21.5	20.5	21.0	19.5	19.0	19.5	20.0	18.0	19.0
9	17.5	16.0	16.5	21.5	20.0	21.0	21.5	18.5	20.0	19.5	19.0	---
10	18.0	15.5	16.5	22.0	20.5	21.5	21.5	19.0	20.5	---	---	---
11	18.5	16.0	17.5	21.5	21.0	21.5	22.5	20.5	21.0	---	---	---
12	18.0	16.5	17.0	21.0	20.0	20.0	24.0	21.0	22.5	---	---	---
13	20.0	16.5	18.0	21.0	20.0	20.0	23.5	21.5	22.5	---	---	---
14	19.5	18.0	19.0	21.5	20.5	21.0	24.0	21.5	22.5	---	---	---
15	19.5	19.0	19.0	22.5	21.0	21.5	23.5	21.0	22.0	---	---	---
16	21.0	19.0	19.5	23.0	22.0	22.5	22.0	21.0	21.5	---	---	---
17	21.0	20.0	20.5	23.5	22.0	22.5	21.0	20.0	20.5	---	---	---
18	22.0	20.5	21.5	24.0	22.5	23.5	22.5	19.5	21.0	---	---	---
19	24.0	21.5	22.5	24.5	23.0	24.0	22.5	19.5	21.5	18.0	17.0	18.0
20	24.0	22.0	23.0	24.5	23.5	24.0	22.5	20.5	21.5	19.5	18.0	18.5
21	23.0	21.0	21.5	25.5	23.5	24.0	21.5	19.5	20.5	19.5	19.0	19.0
22	21.5	20.0	21.0	25.0	23.5	24.0	---	---	---	19.0	18.0	18.5
23	23.5	19.5	21.0	24.5	22.5	23.5	---	---	---	19.0	17.0	18.0
24	24.0	21.0	22.5	23.5	22.5	23.0	---	---	---	17.5	16.5	17.0
25	24.0	22.0	23.0	23.5	23.0	23.5	---	---	---	17.0	16.5	16.5
26	23.0	20.5	21.5	23.5	21.5	22.5	---	---	---	18.0	16.5	17.5
27	20.5	19.5	20.0	22.5	20.0	21.0	---	---	---	18.5	18.0	18.5
28	20.0	20.0	20.0	23.0	20.0	21.5	---	---	---	18.5	17.0	17.5
29	21.5	20.0	20.5	23.5	21.0	22.0	---	---	---	17.0	15.5	16.0
30	20.5	20.0	20.0	23.5	21.0	22.0	---	---	---	16.0	15.0	15.5
31	---	---	---	24.0	21.0	22.5	---	---	---	---	---	---
MONTH	24.0	15.5	20.0	25.5	18.5	22.0	---	---	---	---	---	---

01409095 OYSTER CREEK NEAR BROOKVILLE, N. J.

LOCATION.--Lat 39°47'54", long 74°15'02", Ocean County, water-quality recorder located at gaging station at bridge on Rt. 532, 0.8 mi (1.3 km) west of Garden State Parkway near Waretown, N. J.

DRAINAGE AREA.--7.4 mi² (19.2 km²).

PERIOD OF RECORD.--Chemical analyses: February 1973 to September 1973 (partial-record station). October 1973 to September 1975.
Water temperatures: February to September 1975.

REMARKS.--Water-quality recorder installed February 1975. Extremes not given due to insufficient coverage of the water year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	TEMPERATURE (DEG C)	SPECIFIC CONDUCTANCE (MICROMHOS)	TOTAL ACIDITY AS H+ (MG/L)	DISSOLVED OXYGEN (MG/L)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L)	IMMEDIATE COLIFORM (COL. PER 100 ML)	FECAL COLIFORM (EC BROTH) (MPN)	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)	TURBIDITY (JTU)	COLOR (PLATINUM-COBALT UNITS)
OCT. 18...	1100	13.5	42	--	8.8	--	268	--	60	186	--	--
NOV. 19...	1120	--	40	--	10.0	.8	110	--	6	92	--	--
DEC. 05...	1040	5.1	61	.3	--	--	--	--	--	--	2	40
MAR. 14...	0930	6.8	48	.2	9.7	.3	--	23	30	--	2	30
APR. 17...	1115	12.0	43	.6	9.3	.9	--	23	8	--	1	22
MAY 12...	1210	15.5	39	.3	10.0	.9	--	<20	40	--	1	23
JUNE 04...	1050	16.3	40	--	8.5	.7	--	2	4	--	1	36
JULY 18...	1040	17.8	37	.8	8.1	.7	--	13	0	--	1	22
AUG. 27...	1100	18.5	41	--	7.6	1.2	--	50	4	--	2	7
SEP. 23...	1300	18.4	57	--	8.1	.3	--	920	382	--	1	3

DATE	TOTAL ORGANIC NITROGEN (N) (MG/L)	DISSOLVED ORGANIC NITROGEN (N) (MG/L)	AMMONIA NITROGEN (N) (MG/L)	DISSOLVED AMMONIA NITROGEN (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	DISSOLVED NITRITE (N) (MG/L)	TOTAL NITRATE (N) (MG/L)	DISSOLVED NITRATE (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	DISSOLVED KJEL. NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)
OCT. 18...	--	--	--	--	--	--	--	--	--	--	--	--
NOV. 19...	.00	--	.08	--	.00	--	.03	--	.03	--	.06	.01
DEC. 05...	--	.15	--	.01	--	.00	--	.01	--	.16	--	--
MAR. 14...	.04	--	.04	--	.00	--	.01	--	.08	--	.09	.05
APR. 17...	.11	--	.04	--	.01	--	.00	--	.15	--	.15	.00
MAY 12...	.09	--	.00	--	.00	--	.01	--	.09	--	.10	.00
JUNE 04...	.13	--	.00	--	.01	--	.00	--	.13	--	.13	.01
JULY 18...	.20	--	.01	--	.00	--	.01	--	.21	--	.22	.01
AUG. 27...	.09	--	.01	--	.00	--	.01	--	.10	--	.11	.01
SEP. 23...	.09	--	.00	--	.00	--	.01	--	.09	--	.10	.01

01409095 OYSTER CREEK NEAR BROOKVILLE, N. J.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	DIS-SOL-VED PHOS-PHORUS (P) (MG/L)	TOTAL ORTHO PHOS-PHORUS (P) (MG/L)	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)	DIS-SOLVED ORTHO PHOS-PHATE (PO4) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	CAR-BONATE (CO3) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	TOTAL ACIDITY AS CACO3 (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)
OCT.												
18...	--	--	--	--	--	--	--	--	--	--	--	--
NOV.												
19...	--	.00	--	--	--	--	--	--	--	--	--	--
DEC.												
05...	.01	--	.01	.03	0	0	0	.0	15	7	7	1.4
MAR.												
14...	--	.05	--	--	0	0	0	.0	10	10	10	3.0
APR.												
17...	--	.00	--	--	0	0	0	.0	20	5	5	1.5
MAY												
12...	--	.00	--	--	0	0	0	.0	15	6	6	1.3
JUNE												
04...	--	.00	--	--	0	0	0	.0	--	4	4	.9
JULY												
10...	--	.01	--	--	--	0	--	--	.0	4	--	.9
AUG.												
27...	--	.01	--	--	--	0	--	--	--	4	--	.9
SEP.												
23...	--	.01	--	--	--	0	--	--	--	8	--	2.0

DATE	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	TOTAL FLUO-RIDE (F) (MG/L)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	TOTAL NON-FILT-RABLE RESIDUE (MG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)
OCT.												
18...	--	--	--	--	--	--	--	--	--	--	--	--
NOV.												
19...	--	--	--	--	--	--	--	--	--	--	--	--
DEC.												
05...	.8	4.5	.8	7.8	6.5	.1	6.0	41	28	--	170	20
MAR.												
14...	.5	2.3	.3	7.7	5.9	--	--	41	--	8	--	--
APR.												
17...	.4	3.3	.6	6.1	4.5	--	--	22	--	6	--	--
MAY												
12...	.6	3.0	.6	7.4	3.2	--	--	24	--	1	--	--
JUNE												
04...	.5	2.6	.4	5.5	3.3	--	--	18	--	1	--	--
JULY												
10...	.5	2.8	.3	5.7	2.8	--	--	32	--	0	--	--
AUG.												
27...	.5	2.7	.4	4.2	4.5	--	--	34	--	2	--	--
SEP.												
23...	.8	3.0	.5	3.7	3.0	--	--	30	--	12	--	--

DATE	TIME	INSTAN-TANEOUS DIS-CHARGE (CFS)	PH (UNITS)	TOTAL ORGANIC CARBON (C) (MG/L)	DIS-SOL-VED ORGANIC CARBON (C) (MG/L)
OCT.					
18...	1100	25	4.6	--	--
NOV.					
19...	1120	20	4.4	7.8	--
DEC.					
05...	1040	24	4.1	7.4	7.1
JAN.					
30...	1300	28	3.4	4.3	--
FEB.					
14...	1125	27	4.1	3.4	--
26...	1320	32	4.5	6.6	--
MAR.					
11...	1320	27	4.7	6.9	--
14...	0930	36	4.5	19	--
21...	1315	32	4.4	10	--
APR.					
01...	1315	29	4.4	7.9	--
11...	1315	28	4.5	6.2	--
17...	1115	32	4.6	26	--
22...	1300	26	4.6	4.7	--
MAY					
02...	1200	27	4.6	--	--
12...	1210	28	4.4	6.6	--
14...	1315	80	4.2	9.4	--
29...	1245	28	4.5	7.5	--
JUNE					
04...	1050	29	4.5	3.3	--
09...	1300	32	4.3	7.4	--
23...	1305	26	4.5	4.3	--
JULY					
02...	1230	25	4.6	3.3	--
10...	1040	26	4.5	5.1	--
11...	1130	28	4.4	10	--
17...	1145	30	4.3	2.0	--
AUG.					
07...	1100	57	4.0	12	--
27...	1100	22	4.6	5.4	--
SEP.					
11...	1110	21	4.6	7.6	--
23...	1300	30	4.6	3.6	--

01409095 OYSTER CREEK NEAR BROOKVILLE, N. J.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS AT 25°C), WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	52	46	47	48	41	44	47	43	---	48	44	46
2	53	44	47	47	42	44	60	44	49	48	45	46
3	49	42	45	49	42	45	50	47	---	52	39	45
4	47	43	45	48	48	44	---	---	---	52	43	49
5	61	44	---	47	37	42	---	---	---	67	59	63
6	57	46	54	45	35	41	---	---	---	64	53	59
7	57	46	51	42	36	39	56	53	---	59	49	55
8	55	45	50	45	37	40	56	51	54	56	45	50
9	53	46	49	47	39	43	57	47	52	53	43	48
10	51	44	47	46	40	43	54	47	50	49	41	45
11	46	40	43	54	40	45	---	---	---	50	39	44
12	47	41	44	60	42	52	---	---	---	46	39	42
13	51	45	47	53	41	48	---	---	---	53	39	44
14	49	37	43	70	53	60	---	---	---	---	---	---
15	46	38	42	71	64	67	---	---	---	---	---	---
16	44	37	---	65	55	60	---	---	---	---	---	---
17	44	35	40	57	50	54	---	---	---	---	---	---
18	48	36	44	61	49	54	---	---	---	---	---	---
19	50	38	44	61	47	53	---	---	---	---	---	---
20	49	39	43	---	---	---	---	---	---	---	---	---
21	48	38	43	---	---	---	---	---	---	---	---	---
22	52	39	45	---	---	---	---	---	---	---	---	---
23	51	41	46	---	---	---	---	---	---	---	---	---
24	50	42	45	---	---	---	51	41	45	---	---	---
25	55	40	52	---	---	---	71	41	48	---	---	---
26	54	39	47	---	---	---	67	53	58	---	---	---
27	50	41	45	---	---	---	---	---	---	50	41	47
28	50	43	46	---	---	---	---	---	---	51	42	---
29	---	---	---	---	---	---	67	45	52	43	30	36
30	---	---	---	---	---	---	68	44	46	43	38	40
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	61	35	46	---	---	---	---	---	---	---	---	---

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	47	36	42	43	38	41	49	38	44
2	---	---	---	49	34	40	44	38	---	50	41	---
3	---	---	---	48	34	39	---	---	---	46	36	41
4	---	---	---	51	34	45	---	---	---	46	39	42
5	---	---	---	52	39	49	---	---	---	48	34	43
6	---	---	---	52	43	48	---	---	---	43	33	39
7	---	---	---	51	40	44	---	---	---	46	33	43
8	---	---	---	51	38	43	54	52	---	47	38	42
9	55	51	---	46	38	42	55	46	50	45	35	41
10	59	47	52	45	37	41	50	44	47	50	35	43
11	54	46	49	44	39	---	48	44	46	45	37	43
12	58	48	52	57	39	---	49	43	46	53	38	44
13	61	57	59	55	49	52	48	41	45	55	41	47
14	61	52	56	60	53	56	46	42	44	54	42	49
15	55	53	54	61	57	60	48	42	45	55	43	49
16	55	48	51	61	54	57	52	45	---	52	42	47
17	52	45	49	55	51	53	---	---	---	50	40	47
18	50	44	47	58	47	51	58	49	---	48	41	45
19	49	42	46	50	48	49	60	47	55	47	38	43
20	47	42	45	52	43	47	56	48	52	49	38	44
21	49	34	43	50	38	---	53	38	45	45	37	41
22	45	36	41	55	43	46	42	30	35	48	41	45
23	42	35	39	52	43	46	34	27	30	55	42	50
24	44	36	41	47	42	45	31	27	29	67	55	63
25	44	39	42	51	43	47	36	28	33	77	64	68
26	46	42	44	54	46	50	52	27	44	72	64	68
27	48	43	45	54	47	50	49	42	46	74	64	69
28	47	43	45	50	43	46	54	39	48	73	56	64
29	48	42	45	47	39	43	53	41	49	75	51	61
30	48	42	45	42	38	40	48	38	---	65	48	56
31	---	---	---	46	39	42	51	40	46	---	---	---
MONTH	---	---	---	61	34	47	60	27	---	77	33	49

01409095 OYSTER CREEK NEAR BROOKVILLE, N. J.--Continued

DISSOLVED OXYGEN (DO), IN MILLIGRAMS PER LITER, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	10.8	9.4	10.3	11.2	8.7	9.6	10.7	8.3	9.9	9.3	8.0	8.7
2	11.3	9.9	10.4	11.4	8.9	10.2	10.8	8.5	9.4	10.3	7.8	8.8
3	11.0	9.4	10.3	11.2	8.5	9.8	9.5	8.0	9.0	10.8	8.1	9.4
4	11.6	10.4	10.8	12.4	9.2	10.3	11.0	9.1	10.0	9.3	8.3	8.6
5	11.4	9.1	10.6	11.1	9.3	10.3	11.3	10.0	10.5	9.7	7.5	8.6
6	11.8	10.8	11.1	11.8	9.1	10.0	11.0	9.7	10.3	9.8	8.1	8.7
7	11.3	10.3	10.6	11.6	7.9	9.5	11.1	10.1	10.5	9.5	7.7	8.4
8	11.3	10.3	10.7	11.2	7.7	9.5	11.0	9.9	10.4	9.5	7.7	8.4
9	11.0	9.5	10.3	12.1	8.7	10.3	10.6	9.3	9.9	9.4	7.5	8.2
10	10.8	9.9	10.3	11.1	9.8	10.3	10.7	9.3	9.8	9.3	7.3	8.0
11	10.6	9.3	9.9	10.4	8.1	9.6	11.0	8.8	9.8	9.1	7.1	8.0
12	10.3	9.0	9.8	10.6	9.9	10.2	11.1	9.2	10.0	9.1	6.9	7.8
13	10.8	9.9	10.3	11.6	9.7	10.5	11.2	9.5	10.2	8.7	6.8	---
14	11.7	9.8	10.8	11.5	10.5	10.9	10.8	9.2	10.1	8.3	5.6	---
15	12.2	10.9	11.4	12.9	10.8	11.9	10.2	9.2	9.6	7.9	5.3	6.5
16	12.1	9.9	10.8	12.5	10.9	11.6	10.6	9.3	9.8	7.7	5.9	6.7
17	10.2	8.3	9.3	12.6	9.5	10.9	10.4	8.9	9.5	8.0	6.2	7.0
18	10.7	9.0	9.9	12.0	9.7	10.7	10.3	8.2	9.1	7.7	6.3	6.8
19	10.3	7.6	9.3	10.6	8.8	9.7	9.6	7.8	8.5	7.8	6.3	6.9
20	10.7	9.5	10.1	10.1	8.8	---	9.9	7.8	8.8	8.2	5.7	6.9
21	10.5	8.2	9.5	---	---	---	10.5	8.2	9.1	7.2	5.8	6.3
22	10.6	9.7	10.2	12.5	10.3	11.8	11.4	8.7	9.7	7.7	6.0	6.7
23	---	---	---	12.0	9.8	11.0	11.4	9.3	10.3	7.4	5.8	6.6
24	---	---	---	10.2	9.0	9.7	10.2	8.7	9.3	7.3	5.8	6.4
25	---	---	---	10.5	8.5	9.2	10.3	8.3	9.1	7.2	6.0	6.5
26	10.6	9.7	---	10.4	8.6	9.4	10.2	8.1	8.8	8.0	6.6	7.2
27	10.5	8.2	9.3	11.4	9.4	10.2	10.1	8.1	8.9	8.0	6.6	7.2
28	11.1	8.4	9.6	11.5	9.6	10.6	10.4	8.3	9.2	7.9	6.7	7.2
29	---	---	---	11.3	9.8	10.4	9.9	8.5	9.1	8.1	6.6	7.3
30	---	---	---	10.8	9.8	10.2	10.7	8.5	9.4	8.1	6.4	7.1
31	---	---	---	11.1	9.7	10.3	---	---	---	---	---	---
MONTH	12.2	7.6	10.2	12.9	7.7	10.3	11.4	7.8	9.6	10.8	5.3	7.5

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	7.9	7.0	7.4	7.1	6.1	6.6	8.3	7.0	7.6
2	---	---	---	8.6	6.7	7.5	6.8	6.2	---	8.3	7.1	7.6
3	---	---	---	7.9	6.0	7.1	---	---	---	8.0	6.8	7.4
4	---	---	---	7.3	6.1	6.6	---	---	---	8.1	6.9	7.4
5	---	---	---	7.7	6.4	7.0	---	---	---	8.6	6.7	7.6
6	---	---	---	8.1	6.8	7.4	---	---	---	8.6	7.2	7.9
7	---	---	---	8.1	6.9	7.5	---	---	---	8.7	7.2	7.9
8	---	---	---	8.2	6.8	7.4	6.4	6.1	---	8.8	7.5	8.0
9	8.3	7.4	---	8.0	6.5	7.2	7.3	5.8	6.5	8.5	7.3	7.8
10	8.6	7.4	7.9	8.0	6.4	7.1	7.1	5.9	6.5	8.1	7.6	---
11	8.6	7.0	7.8	8.1	6.4	---	6.9	6.1	6.4	8.9	7.4	---
12	8.1	6.4	7.4	7.9	6.8	7.4	6.9	6.0	6.5	8.1	7.0	7.6
13	7.4	5.5	6.3	7.6	6.1	6.9	6.9	6.0	6.4	8.6	6.9	7.7
14	7.6	5.7	6.6	6.8	5.0	6.1	7.1	6.2	6.6	8.7	7.7	8.1
15	7.5	6.3	6.9	6.0	4.4	5.1	7.2	6.4	6.7	9.4	7.7	8.5
16	7.8	6.5	7.2	6.4	4.5	5.5	6.9	6.4	---	9.1	8.0	8.5
17	7.8	6.4	7.0	7.9	5.5	6.5	---	---	---	9.0	7.8	8.4
18	8.0	6.4	7.1	7.9	6.1	7.1	7.8	7.2	---	8.9	7.5	8.1
19	7.7	6.4	7.0	7.2	6.1	6.6	8.9	7.5	8.2	8.6	7.3	8.0
20	7.6	6.5	7.0	7.2	5.9	6.5	8.8	7.5	8.1	8.2	6.9	7.5
21	7.9	6.7	7.2	7.0	5.6	6.3	8.6	7.3	7.8	7.9	6.7	7.2
22	8.0	6.8	7.4	6.8	5.8	6.3	8.5	7.1	7.7	8.5	6.9	7.5
23	8.3	6.7	7.3	7.2	5.8	6.4	8.4	6.9	7.7	8.1	6.9	7.4
24	8.0	6.3	7.1	7.2	5.8	6.4	8.3	6.8	7.5	8.3	6.0	7.2
25	8.0	6.4	7.0	7.0	5.7	6.3	8.2	6.9	7.6	6.8	6.1	6.5
26	7.7	6.5	7.3	6.7	5.7	6.1	8.5	7.0	7.6	6.8	5.6	6.2
27	8.2	7.0	7.6	7.2	6.0	6.6	8.3	6.6	7.3	7.2	5.7	6.3
28	8.1	6.9	7.4	7.3	6.2	6.8	8.4	6.7	7.5	7.5	6.0	6.8
29	7.9	6.6	7.3	7.2	6.2	6.7	8.4	6.8	7.6	8.1	7.2	7.7
30	7.7	6.8	7.2	7.2	6.2	6.7	8.5	6.8	7.4	8.2	7.4	7.9
31	---	---	---	7.1	6.1	6.6	8.1	7.0	7.5	---	---	---
MONTH	---	---	---	8.6	4.4	6.7	8.9	5.8	---	9.4	5.6	7.6

01409095 OYSTER CREEK NEAR BROOKVILLE, N. J.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	7.0	6.5	7.0	7.5	7.0	7.5	15.0	7.5	8.5	11.5	11.0	11.0
2	7.0	6.5	6.5	7.5	7.0	7.0	10.0	9.0	9.5	11.5	11.0	11.0
3	7.0	6.0	6.5	7.0	6.0	6.5	9.5	7.5	9.0	12.5	10.5	11.5
4	6.5	6.0	6.5	6.5	5.5	---	7.5	6.5	6.5	12.5	11.0	11.5
5	---	---	---	7.5	5.5	---	10.0	6.0	7.0	12.0	10.5	11.0
6	---	---	---	8.0	5.5	---	---	---	---	12.5	11.0	12.0
7	---	---	---	8.0	7.0	7.5	---	---	---	13.0	11.5	12.5
8	---	---	---	8.0	6.5	7.5	11.0	7.5	---	13.5	11.5	12.5
9	---	---	---	7.5	5.5	6.0	11.5	7.5	---	13.5	12.0	13.0
10	---	---	---	7.5	5.0	---	11.5	8.5	9.5	14.0	12.5	13.0
11	---	---	---	6.5	6.0	---	10.0	8.5	9.5	14.5	12.0	13.5
12	---	---	---	6.5	6.0	6.5	10.0	8.5	9.5	15.0	13.5	14.5
13	---	---	---	7.5	6.5	7.0	10.5	8.5	9.5	15.0	13.5	14.5
14	---	---	---	7.0	5.5	6.5	12.0	8.5	---	16.0	14.0	---
15	---	---	---	6.0	5.0	5.5	11.0	9.5	10.0	16.5	14.5	15.5
16	---	---	---	7.0	5.5	6.0	10.0	9.0	9.5	16.0	15.0	15.5
17	---	---	---	7.0	6.0	6.5	11.5	9.5	10.5	16.0	14.5	15.5
18	---	---	---	7.0	6.0	6.5	11.5	10.5	11.0	15.5	15.0	15.5
19	---	---	---	7.5	6.5	7.0	12.0	11.0	11.5	16.5	15.0	16.0
20	---	---	---	7.5	7.0	---	12.0	11.0	11.5	17.5	15.5	16.5
21	---	---	---	8.0	7.5	---	11.5	10.5	11.0	17.0	16.0	16.5
22	---	---	---	9.0	7.5	8.5	10.5	9.5	10.0	17.5	16.5	17.0
23	---	---	---	9.0	8.0	8.5	11.5	9.5	10.5	18.0	16.5	17.0
24	---	---	---	9.0	8.0	8.5	12.0	11.0	11.5	18.5	17.0	18.0
25	---	---	---	9.5	9.0	9.0	12.5	11.5	12.0	18.0	15.5	16.5
26	8.0	7.5	---	9.5	7.5	8.5	12.5	11.5	12.0	16.5	15.0	16.0
27	8.0	7.5	7.5	9.0	7.0	7.5	12.5	11.0	11.5	17.5	16.0	16.5
28	8.0	6.5	7.5	10.0	6.5	---	12.0	10.5	11.5	18.0	16.5	17.0
29	---	---	---	---	---	---	11.5	11.0	11.5	18.0	16.5	17.0
30	---	---	---	---	---	---	12.0	11.0	11.5	17.5	16.0	16.5
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	---	---	---	10.0	5.0	---	15.0	6.0	10.0	18.5	10.5	14.5

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	18.0	16.5	17.0	20.5	19.0	20.0	---	---	---
2	---	---	---	18.0	16.5	17.0	20.5	19.5	---	---	---	---
3	---	---	---	18.5	17.0	17.5	---	---	---	---	---	---
4	---	---	---	18.5	17.5	18.0	---	---	---	---	---	---
5	---	---	---	19.0	17.5	18.0	---	---	---	18.5	16.0	---
6	---	---	---	18.0	17.0	17.5	---	---	---	19.0	15.0	17.0
7	---	---	---	19.0	17.0	17.5	---	---	---	18.0	15.0	16.0
8	---	---	---	19.0	17.0	18.0	---	---	---	18.0	14.5	16.5
9	15.5	15.0	---	18.5	17.0	18.0	---	---	---	19.5	15.5	---
10	16.0	14.0	15.0	18.5	17.5	18.0	---	---	---	---	---	---
11	16.5	14.5	15.5	18.5	17.5	---	---	---	---	---	---	---
12	16.0	15.5	15.5	18.0	17.5	---	---	---	---	17.0	13.5	15.5
13	18.0	16.0	17.0	19.0	18.0	18.5	---	---	---	16.0	12.5	15.0
14	18.0	16.5	17.5	19.0	18.5	19.0	---	---	---	---	---	---
15	17.5	16.5	17.0	20.5	19.0	19.5	---	---	---	---	---	---
16	18.5	16.0	17.0	21.0	19.0	20.0	---	---	---	---	---	---
17	19.0	17.0	18.0	21.0	19.0	20.0	---	---	---	---	---	---
18	19.0	17.5	18.0	21.0	19.5	20.5	---	---	---	---	---	---
19	19.5	17.5	18.5	20.5	19.5	20.5	---	---	---	16.5	12.0	14.0
20	19.0	18.0	18.5	21.0	19.5	20.0	---	---	---	18.5	14.5	16.5
21	18.5	17.0	17.5	21.5	20.0	20.5	---	---	---	18.5	16.0	17.0
22	18.0	16.5	17.5	21.0	20.0	20.5	---	---	---	18.5	15.0	17.0
23	19.0	17.0	18.0	21.0	19.0	20.0	---	---	---	17.0	14.5	15.5
24	19.5	18.0	18.5	21.0	19.0	20.0	---	---	---	---	---	---
25	19.5	18.0	18.5	21.0	19.5	20.0	---	---	---	---	---	---
26	18.5	17.5	18.0	21.0	19.5	20.0	---	---	---	---	---	---
27	17.5	16.5	17.0	21.0	18.5	19.5	---	---	---	---	---	---
28	18.0	17.0	17.5	20.5	18.5	19.0	---	---	---	---	---	---
29	18.5	17.0	17.5	20.5	18.5	19.0	---	---	---	---	---	---
30	18.0	17.5	17.5	20.5	18.0	19.5	---	---	---	---	---	---
31	---	---	---	20.0	18.5	19.5	---	---	---	---	---	---
MONTH	---	---	---	21.5	16.5	19.0	---	---	---	---	---	---

01409095 OYSTER CREEK NEAR BROOKVILLE, N. J.--Continued

pH (UNITS), WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	4.7	4.5	4.6	4.8	4.6	4.7	4.8	4.7	4.8
2	4.1	3.9	---	4.7	4.5	4.6	4.8	4.7	4.8	4.8	4.7	4.8
3	4.2	3.9	4.0	4.7	4.4	4.6	4.8	3.8	4.5	4.8	4.6	4.7
4	4.2	3.8	4.0	4.8	4.5	4.6	4.5	4.4	4.5	4.8	3.8	4.5
5	---	---	---	4.7	4.5	4.6	4.5	4.4	4.5	4.3	3.9	---
6	---	---	---	4.8	4.5	4.7	4.6	4.5	4.5	4.4	3.5	---
7	---	---	---	4.7	4.5	4.6	4.6	4.4	4.5	4.5	3.9	---
8	---	---	---	4.8	4.6	4.6	4.5	4.4	4.5	4.7	4.1	4.5
9	---	---	---	4.7	4.5	4.6	4.6	4.3	4.5	4.7	4.3	4.6
10	---	---	---	4.8	4.5	4.7	4.5	4.4	4.5	4.7	4.5	4.6
11	4.2	4.0	---	4.7	4.5	4.7	4.6	4.4	4.5	4.8	4.5	4.7
12	---	---	---	4.8	4.5	---	4.6	4.5	4.6	4.7	4.5	4.6
13	---	---	---	---	---	---	4.6	4.5	4.6	4.6	3.5	4.3
14	---	---	---	---	---	---	4.7	4.4	4.6	4.3	4.1	---
15	---	---	---	4.5	4.4	---	4.6	4.4	4.5	4.4	3.8	---
16	---	---	---	4.5	4.4	4.5	4.6	4.1	4.4	4.5	4.0	---
17	---	---	--	4.6	4.5	4.5	4.5	4.3	4.4	4.5	4.2	4.4
18	---	---	---	4.8	4.6	4.6	4.6	4.4	4.5	4.6	3.9	4.4
19	---	---	---	---	---	---	5.1	4.4	4.7	4.6	4.2	4.4
20	---	---	---	---	---	---	4.6	4.4	4.5	4.6	4.3	4.5
21	---	---	---	4.6	4.4	---	4.7	4.5	4.6	4.6	4.0	4.5
22	---	---	---	5.2	4.6	4.9	4.8	4.6	4.7	4.6	4.4	4.5
23	---	---	---	4.8	4.5	4.6	4.9	4.7	4.8	4.6	4.0	4.5
24	---	---	---	4.8	4.7	---	5.1	4.7	4.9	4.6	4.3	4.5
25	4.3	3.5	3.7	---	---	---	5.1	4.6	---	4.7	4.6	4.7
26	4.5	3.6	4.3	4.6	4.5	4.6	4.7	4.4	4.5	4.6	4.3	4.5
27	4.6	4.4	4.5	4.7	4.6	4.6	4.7	4.5	4.6	4.7	4.4	4.5
28	4.7	4.4	4.6	4.7	4.6	4.7	4.7	4.5	4.6	4.7	4.5	4.7
29	---	---	---	4.7	4.6	4.7	4.7	4.6	4.7	4.8	4.6	4.7
30	---	---	---	4.9	4.3	4.6	4.8	4.6	4.7	4.7	4.6	4.6
31	---	---	---	4.7	4.5	4.6	---	---	---	---	---	---
MONTH	---	---	---	5.2	4.3	---	5.1	3.8	4.6	4.8	3.5	---

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	4.8	4.5	4.7	4.8	4.5	4.6	4.6	4.5	4.6
2	---	---	---	4.8	4.4	4.6	4.9	4.7	---	4.6	4.4	4.6
3	---	---	---	4.7	4.4	4.5	---	---	---	4.7	4.5	4.6
4	---	---	---	4.4	4.2	4.3	---	---	---	4.8	4.4	4.6
5	---	---	---	4.5	4.4	4.4	---	---	---	4.8	4.3	4.6
6	---	---	---	4.6	4.4	4.5	---	---	---	4.9	4.4	4.7
7	---	---	---	4.6	4.0	4.5	---	---	---	4.7	4.5	4.6
8	---	---	---	4.6	4.4	4.5	4.3	4.2	---	---	---	---
9	4.5	4.3	---	4.6	3.6	4.4	4.3	4.0	4.2	4.6	4.4	4.5
10	4.6	4.0	4.4	4.6	4.4	4.5	4.4	4.1	4.3	---	---	---
11	4.6	3.8	4.4	4.6	4.4	---	4.4	4.3	4.4	4.8	4.2	---
12	4.5	3.8	---	4.7	3.9	---	4.4	4.2	4.3	5.2	4.4	---
13	4.0	3.5	---	---	---	---	4.5	4.2	4.4	4.6	4.3	4.4
14	4.3	3.8	3.9	---	---	---	4.4	4.2	4.4	4.7	4.4	4.6
15	4.3	3.5	4.0	4.4	3.9	4.3	4.5	4.3	4.4	4.7	4.4	4.6
16	4.4	3.5	4.2	4.9	3.6	4.3	4.5	3.8	---	5.2	4.3	4.7
17	4.5	3.5	4.3	4.8	4.3	4.5	---	---	---	4.9	4.3	4.6
18	4.5	3.7	4.3	4.6	4.3	4.5	4.4	4.2	---	4.6	4.0	4.4
19	4.5	4.3	4.4	4.6	4.4	4.5	4.5	4.3	4.4	4.4	3.6	---
20	4.5	4.4	4.5	4.6	4.4	4.5	4.	4.3	4.5	---	---	---
21	4.7	4.4	4.6	4.6	4.4	4.5	4.6	4.4	4.5	4.8	4.5	---
22	4.7	4.4	4.6	4.7	4.4	4.5	4.7	4.3	4.5	4.7	4.5	4.6
23	4.6	4.4	4.5	4.8	4.4	4.6	4.6	4.4	4.5	4.7	3.6	4.3
24	4.6	4.4	4.5	4.8	4.4	4.6	4.7	4.5	4.6	3.8	3.6	---
25	4.6	4.5	4.6	5.0	4.4	4.6	4.8	4.3	---	---	---	---
26	4.7	4.6	4.6	4.7	4.3	4.5	4.8	4.2	4.5	---	---	---
27	4.7	4.2	4.5	4.8	4.5	4.7	4.6	4.2	4.4	4.4	3.4	4.0
28	4.6	3.8	4.3	4.7	4.5	4.6	4.7	4.3	4.5	4.9	3.7	4.3
29	4.6	4.0	4.4	4.8	4.5	4.6	4.7	4.4	4.6	4.9	4.4	---
30	4.7	4.4	4.6	4.9	4.5	4.7	4.6	4.3	4.5	---	---	---
31	---	---	---	4.9	4.5	4.7	4.6	4.6	4.6	---	---	---
MONTH	---	---	---	5.0	3.6	4.5	4.9	3.8	---	5.2	3.4	---

01410775 GREAT EGG HARBOR RIVER AT BERLIN, N.J.

LOCATION.--Lat 39°47'39", long 74°56'14", Camden County, at partial-record station at bridge on Berlin-Albion Road in Berlin, 8.2 mi (13.2 km) upstream from Fourmile Branch, and 47.5 mi (76.4 km) upstream from mouth.

DRAINAGE AREA.--1.98 mi² (5.13 km²).

PERIOD OF RECORD.--Chemical analyses: June to September 1975.

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	DIS-SOLVED OXYGEN (MG/L)	BIO-CHEM-ICAL OXYGEN DEMAND 5 DAY (MG/L)	FECAL COLI-FORM (EC BROTH) (MPN)	FECAL COLI-FORM (COL. PER 100 ML)	TUR-BID-ITY (JTU)	COLOR (PLAT-INUM-COBALT UNITS)	TOTAL ORGANIC NITRO-GEN (N) (MG/L)
JUNE 25...	0920	24.4	161	6.3	3.0	8.2	>2400	--	6	15	1.1
JULY 15...	0950	21.7	160	6.1	6.8	.8	>2400	--	25	35	.39
AUG. 12...	0715	21.5	141	5.9	6.1	5.6	>2400	3800	8	6	.47
SEP. 19...	0650	18.0	214	5.7	10.0	3.6	28	420	5	2	.29

DATE	AMMONIA NITRO-GEN (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	TOTAL ORTHO PHOS-PHORUS (P) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	CAR-BONATE (CO3) (MG/L)	BICAR-BONATE (HCO3) (MG/L)
JUNE 25...	.36	.04	.92	1.5	2.5	.10	.01	17	20	0	24
JULY 15...	.13	.01	.13	.52	.66	.11	.04	7.1	9	0	11
AUG. 12...	.34	.04	.87	.81	1.7	.04	.03	7.7	14	--	17
SEP. 19...	.08	.02	.98	.37	1.4	.04	.01	7.8	--	0	--

DATE	CARBON DIOXIDE (CO2) (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	TOTAL NON-FILT-RABLE RESIDUE (MG/L)
JUNE 25...	19	39	20	11	2.9	13	3.1	18	10	105	22
JULY 15...	14	13	4	3.7	.8	5.2	1.3	8.3	2.8	47	26
AUG. 12...	34	32	18	9.1	2.2	9.6	2.2	13	13	85	19
SEP. 19...	--	49	--	14	3.4	14	3.7	20	19	108	17

GREAT EGG HARBOR RIVER BASIN

01410784 GREAT EGG HARBOR RIVER NEAR SICKLERVILLE, N. J.

LOCATION.--Lat 39°44'02", long 74°57'06", Camden County, at partial-record gaging station at bridge on Sicklerville-New Freedom Road (Spur 536) and 1.5 mi (2.4 km) northeast of Sicklerville.

DRAINAGE AREA.--15.1 mi² (39.1 km²).

PERIOD OF RECORD.--Chemical analyses: Water year 1972 (partial-record station), October 1972 to September 1975.

REMARKS.--Miscellaneous storm sediment samples collected during water years 1974-75.

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	AIR TEMPER-ATURE (DEG C)	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	DIS-SOLVED OXYGEN (MG/L)	BIO-CHEM-ICAL OXYGEN DEMAND 5 DAY (MG/L)	CHEM-ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	IMME-DIATE COLI-FORM (COL. PER 100 ML)	FECAL COLI-FORM (EC BROTH) (MPN)
OCT. 30...	1245	--	14.0	116	6.1	3.4	2.7	--	620	--
NOV. 27...	1045	--	3.5	130	6.7	7.0	2.1	--	350	--
JAN. 02...	0840	--	5.0	88	6.4	7.7	1.6	--	256	--
17...	0840	--	1.0	82	5.8	9.8	5.4	--	624	--
FEB. 25...	0915	5.5	8.5	88	5.8	7.8	3.3	50	6700	--
MAR. 25...	0910	--	9.0	66	5.0	7.2	1.2	37	--	13
APR. 10...	0910	--	7.1	82	5.4	8.3	2.7	27	--	4
MAY 14...	0950	--	17.4	71	5.7	5.3	.7	47	--	70
JUNE 10...	0800	--	14.7	80	5.1	5.7	2.0	43	--	33
JULY 17...	0845	--	23.0	49	4.4	3.0	7.1	87	--	130
AUG. 13...	1600	--	22.0	77	6.1	--	5.0	60	--	230
SEP. 11...	1235	--	14.3	127	5.1	7.9	2.6	23	--	--

DATE	FECAL COLI-FORM (COL. PER 100 ML)	STREP-TOCOCCI (COL-ONIES PER 100 ML)	TOTAL ORGANIC NITRO-GEN (N) (MG/L)	DIS-SOLVED ORGANIC NITRO-GEN (N) (MG/L)	AMMONIA NITRO-GEN (N) (MG/L)	DIS-SOLVED AMMONIA NITRO-GEN (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	DIS-SOLVED NITRITE (N) (MG/L)	TOTAL NITRATE (N) (MG/L)	DIS-SOLVED NITRATE (N) (MG/L)
OCT. 30...	60	320	.00	--	1.4	--	.01	--	.72	--
NOV. 27...	80	340	.00	--	1.5	--	.03	--	1.1	--
JAN. 02...	16	230	.00	--	.62	--	.01	--	.74	--
17...	10	132	.44	--	.53	--	.01	--	.63	--
FEB. 25...	34	76	.46	--	.49	--	.01	--	.36	--
MAR. 25...	10	304	.30	.21	.27	.27	.01	.01	.42	.42
APR. 10...	2	<10	.33	--	.25	--	.01	--	.98	--
MAY 14...	170	212	.87	.87	.13	.06	.01	.01	.59	.58
JUNE 10...	--	--	1.3	--	.00	--	.01	--	.00	--
JULY 17...	--	560	.83	--	.17	--	.02	--	.08	--
AUG. 13...	155	264	.54	--	.01	--	.01	--	.45	--
SEP. 11...	16	200	.44	--	.01	--	.01	--	1.7	--

DATE	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	DIS-SOLVED KJEL. NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOL-VED-PHOS-PHORUS (P) (MG/L)	TOTAL ORTHO PHOS-PHORUS (P) (MG/L)	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)	DIS-SOLVED ORTHO PHOS-PHATE (PO4) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)	DIS-SOL-VED ORGANIC CARBON (C) (MG/L)
OCT. 30...	1.4	--	2.1	1.2	--	.95	--	--	11	--
NOV. 27...	1.5	--	2.6	.77	--	.72	--	--	16	--
JAN. 02...	.62	--	1.3	.39	--	.33	--	--	--	--
17...	.97	--	1.6	.23	--	.23	--	--	14	--
FEB. 25...	.85	--	1.3	.22	--	.16	--	--	23	--
MAR. 25...	.57	.48	1.0	.22	.19	.16	.14	.43	20	--
APR. 10...	.58	--	1.6	.31	--	.25	--	--	24	--
MAY 14...	1.0	.93	1.6	.47	.44	.40	.36	1.1	13	13
JUNE 10...	1.3	--	1.3	.30	--	.17	--	--	19	16
JULY 17...	1.0	--	1.1	.24	--	.20	--	--	45	20
AUG. 13...	.55	--	1.0	.31	--	.31	--	--	21	21
SEP. 11...	.45	--	2.2	.63	--	.54	--	--	9.6	9.4

01410784 GREAT EGG HARBOR RIVER NEAR SICKLERVILLE, N. J.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	COD IN BOTTOM MA-TERIAL (MG/KG)	TOTAL AMMONIA NITRO-GEN IN BOTTOM MAT. (MG/KG)	TOTAL NITRITE PLUS NITRATE IN BOT. MAT. (MG/KG)	TOTAL KJEL. NITRO-GEN IN BOTTOM MAT. (MG/KG)	TOTAL NITRO-GEN IN BOTTOM MATERI-AL (N) (MG/KG)	TOTAL PHOS-PHORUS IN BOT-TOM MA-TERIAL (MG/KG)	ORGANIC CARBON IN BOT-TOM MA-TERIAL (C) (G/KG)	IN-ORGANIC CARBON IN BOT-TOM MA-TERIAL (G/KG)	TOTAL IRON IN BOTTOM MA-TERIAL (UG/G)	TOTAL MANGA-NESE IN BOTTOM MA-TERIAL (UG/G)
APR. 10...	19000	6.2	1.6	166	168	85	2.8	.7	2200	2

DATE	TOTAL ARSENIC IN BOTTOM MA-TERIAL (UG/G)	TOTAL CADMIUM IN BOTTOM MA-TERIAL (UG/G)	TOTAL CHRO-MIUM IN BOTTOM MA-TERIAL (UG/G)	TOTAL COBALT IN BOTTOM MA-TERIAL (UG/G)	TOTAL COPPER IN BOTTOM MA-TERIAL (UG/G)	TOTAL LEAD IN BOTTOM MA-TERIAL (UG/G)	TOTAL MERCURY IN BOTTOM MA-TERIAL (UG/G)	TOTAL NICKEL IN BOTTOM MA-TERIAL (UG/G)	TOTAL ZINC IN BOTTOM MA-TERIAL (UG/G)
APR. 10...	4	0	2	0	1	4	.0	2	3

PESTICIDE ANALYSES, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	ALDRIN IN BOTTOM MA-TERIAL (UG/KG)	LINDANE IN BOTTOM MA-TERIAL (UG/KG)	CHLOR-DANE IN BOTTOM MA-TERIAL (UG/KG)	DDD IN BOTTOM MA-TERIAL (UG/KG)	DDE IN BOTTOM MA-TERIAL (UG/KG)	DDT IN BOTTOM MA-TERIAL (UG/KG)	DI-ELDRIN IN BOTTOM MA-TERIAL (UG/KG)	ENDRIN IN BOTTOM MA-TERIAL (UG/KG)	TOX-APHENE IN BOTTOM MA-TERIAL (UG/KG)	HEPTA-CHLOR IN BOTTOM MA-TERIAL (UG/KG)	HEPTA-CHLOR EPOXIDE IN BOT-TOM MA-TERIAL (UG/KG)	PCB IN BOTTOM MA-TERIAL (UG/KG)
APR. 10...	.0	.0	0	.2	.0	.0	.0	.0	0	.0	.0	0

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA
WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

PERIPHYTON

DATE	EXPOSURE LENGTH (DAYS)	BIOMASS DRY WEIGHT (G/SQ M)	BIOMASS ASH WEIGHT (G/SQ M)	CHLORO-PHYLL A (MG/SQ M)	CHLORO-PHYLL B (MG/SQ M)	BIOMASS PIGMENT RATIO	SAMPLING METHOD
APR. 29...	33	1.5	0.2	5.9	1.2	210	POLY-ETHYLENE STRIP

BENTHIC INVERTEBRATES

DATE AND TIME	EXPOSURE LENGTH (DAYS)	ORGANISM	ORGANISM COUNT (NO/SQ M)	DI-VERSITY INDEX	BIOMASS WET WEIGHT (G/SQ M)	SAMPLING METHOD
APR. 29... AT 0845	33	ARTHROPODA		0.0	0	MULTIPLATE ARTIFICIAL SUBSTRATE
		INSECTA				
		DIPTERA				
		CHIRONOMIDAE	16			
		TRICHOPTERA	1			
		PLECOPTERA	4			
		MEGALOPTERA	2			
		ODONATA				
		AESCHNIDAE	1			
		TOTAL =	24			

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          *** DIVERSITY INDICES ***
LEVEL       TAXA  COUNT  DIVERSITY  REDUNDANCY
INSECTA,
GENERA :         (NOT CALCULABLE)
FAMILY :     2     17      0.32        0.90
ORDER  :     5     24      1.56        0.53
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01410784 GREAT EGG HARBOR RIVER NEAR SICKLERVILLE, N. J.--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA
WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

APR. 10, 1975
0910 HOURS

IDENTIFICATION OF PHYTOPLANKTON

330 CELLS/ML

	_ORGANISM__NAME	_COMMON__NAME	CELLS/ML	PER_CENT
	CHRYSOPHYTA			
	.BACILLARIOPHYCEAE	DIATOMS		
	..PENNALES	PENNATE		
	...ACHNANTHACEAE			
	....ACHNANTHES		20	6
	...EUNOTIACEAE			
	....EUNOTIA		20	6
	...FRAGILARIACEAE			
D	....SYNEDRA		200	59
	...MERIDIONACEAE			
	....MERIDION		20	6
	...NAVICULACEAE	NAVICULOID		
	....NAVICULA		39	12
	...NITZSCHIACEAE			
	....NITZSCHIA		20	6
	EUGLENOPHYTA	EUGLENOIDS		
	.EUGLENOPHYCEAE			
	..EUGLENALES			
	...EUGLENACEAE			
	....EUGLENA		20	6

NOTE: D - DOMINANT ORGANISM: GREATER OR EQUAL TO 15%
ANALYSIS METHOD: SEDGWICK-RAFTER CHAMBER , 200-X MICROSCOPE
DIVERSITY INDICES, BASED ON ACTUAL COUNTS:
PHYL/DIV 0.323
CLASS 0.323
ORDER 0.323
FAMILY 2.016
GENERA 2.016

01410787 GREAT EGG HARBOR RIVER TRIBUTARY AT SICKLERVILLE, N. J.

LOCATION.--Lat 39°43'31", long 74°57'39", Camden County at gaging station at bridge on Blackwood-New Brooklyn Road, 0.8 mi (1.3 km) northeast of Sicklerville, and 0.8 mi (1.3 km) upstream from mouth.

DRAINAGE AREA.--1.64 mi² (4.25 km²).

PERIOD OF RECORD.--Chemical analyses: January 1972 to September 1975.
Sediment analyses: May 1974 to September 1975.

EXTREMES.--1974-75:
Sediment concentrations: Maximum daily, 138 mg/l Dec. 16; minimum daily, 5 mg/l Feb. 12.
Sediment discharge: Maximum daily, 11 tons July 13; minimum daily, 0.01 tons on many days throughout the water year.
Period of record:
Sediment concentrations: Maximum daily, 460 mg/l June 23, 1974; minimum daily, 5 mg/l Feb. 12, 1975.
Sediment discharge: Maximum daily, 11 tons July 13, 1975; minimum daily, 0.01 tons on Sept. 18, 19, 27, 1974 and on many days throughout the 1975 water year.

REMARKS.--Miscellaneous storm sediment samples collected during water years 1972-74.

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	AIR TEMPERATURE (DEG C)	TEMPERATURE (DEG C)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	DISSOLVED OXYGEN (MG/L)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L)	CHEMICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	IMMEDIATE COLIFORM (COL. PER 100 ML)	FECAL COLIFORM (EC BROTH) (MPN)
OCT.											
30...	1230	.44	--	16.5	156	6.5	10.5	1.6	13	650	--
NOV.											
27...	1110	.33	--	4.1	151	8.2	13.4	2.5	--	460	--
JAN.											
02...	0900	1.8	--	4.0	112	6.8	10.9	1.5	--	100	--
17...	0905	1.6	--	2.0	87	7.3	11.6	4.9	--	350	--
FEB.											
25...	1000	5.3	5.5	9.0	80	6.2	9.4	2.0	41	1320	--
MAR.											
25...	0945	6.9	--	10.0	63	5.9	9.3	3.4	32	--	920
APR.											
10...	1000	1.7	--	9.1	84	6.7	11.0	4.0	13	--	<20
MAY											
14...	0945	2.4	--	18.7	83	--	9.0	2.4	25	--	200
JUNE											
10...	0930	1.2	--	17.3	83	6.0	6.7	2.0	22	--	170
JULY											
17...	0930	3.6	--	25.0	42	5.9	6.0	1.9	--	--	230
AUG.											
13...	1530	.64	--	30.0	105	6.7	9.8	3.3	19	--	130
SEP.											
11...	1210	.30	--	19.0	156	6.5	10.6	8.6	42	--	--

DATE	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)	TOTAL ORGANIC NITROGEN (N) (MG/L)	DISSOLVED ORGANIC NITROGEN (N) (MG/L)	AMMONIA NITROGEN (N) (MG/L)	DISSOLVED AMMONIA NITROGEN (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	DISSOLVED NITRITE (N) (MG/L)	TOTAL NITRATE (N) (MG/L)	DISSOLVED NITRATE (N) (MG/L)
OCT.										
30...	200	150	.19	--	.12	--	.01	--	.68	--
NOV.										
27...	10	460	.17	--	.19	--	.03	--	.78	--
JAN.										
02...	68	145	.16	--	.30	--	.03	--	.85	--
17...	64	20	.10	--	.26	--	.02	--	.53	--
FEB.										
25...	876	1200	.00	--	.73	--	.06	--	.39	--
MAR.										
25...	700	1720	.47	.21	.14	.10	.02	.02	.40	.40
APR.										
10...	20	--	.70	--	.08	--	.00	--	.81	--
MAY										
14...	483	512	.63	.63	.06	.01	.01	.01	.54	.54
JUNE										
10...	--	2080	.48	--	.13	--	.03	--	.52	--
JULY										
17...	670	300	.47	--	.17	--	.01	--	.28	--
AUG.										
13...	90	300	.46	--	.03	--	.02	--	.44	--
SEP.										
11...	460	156	1.9	--	.01	--	.02	--	.42	--

01410787 GREAT EGG HARBOR RIVER TRIBUTARY AT SICKLERVILLE, N. J.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	DIS-SOLVED KJEL. NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOL-VED-PHOS-PHORUS (P) (MG/L)	TOTAL ORTHO PHOS-PHORUS (P) (MG/L)	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)	DIS-SOLVED ORTHO PHOS-PHATE (PO4) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)	DIS-SOL-VED ORGANIC CARBON (C) (MG/L)
OCT. 30...	.31	--	1.0	.03	--	.01	--	--	4.6	--
NOV. 27...	.36	--	1.2	.08	--	.02	--	--	5.8	--
JAN. 02...	.46	--	1.3	.04	--	.05	--	--	--	--
17...	.36	--	.91	.07	--	.11	--	--	7.0	--
FEB. 25...	.73	--	1.2	.15	--	.12	--	--	15	--
MAR. 25...	.61	.31	1.0	.14	.01	.05	.01	.03	8.8	--
APR. 10...	.20	--	1.0	.03	--	.00	--	--	9.4	--
MAY 14...	.69	.66	1.2	.09	.01	.01	.00	.00	--	8.0
JUNE 10...	.61	--	1.2	.09	--	.05	--	--	6.8	6.8
JULY 17...	.64	--	.93	.06	--	.03	--	--	20	20
AUG. 13...	.49	--	.95	.03	--	.01	--	--	--	16
SEP. 11...	1.9	--	2.3	.09	--	.01	--	--	20	20

DATE	COD IN BOTTOM MA-TERIAL (MG/KG)	TOTAL AMMONIA NITRO-GEN IN BOTTOM MAT. (MG/KG)	TOTAL NITRITE PLUS NITRATE IN BOT. MAT. (MG/KG)	TOTAL KJEL. NITRO-GEN IN BOTTOM MAT. (MG/KG)	TOTAL NITRO-GEN IN BOTTOM MATERI-AL (N) (MG/KG)	TOTAL PHOS-PHORUS IN BOT-TOM MA-TERIAL (MG/KG)	ORGANIC CARBON IN BOT-TOM MA-TERIAL (C) (G/KG)	IN-ORGANIC CARBON IN BOT-TOM MA-TERIAL (G/KG)	TOTAL IRON IN BOTTOM MA-TERIAL (UG/G)	TOTAL MANGA-NESE IN BOTTOM MA-TERIAL (UG/G)
APR. 10...	4600	4.0	1.7	8.9	11	19	.0	2.6	1300	8

DATE	TOTAL ARSENIC IN BOTTOM MA-TERIAL (UG/G)	TOTAL CADMIUM IN BOTTOM MA-TERIAL (UG/G)	TOTAL CHRO-MIUM IN BOTTOM MA-TERIAL (UG/G)	TOTAL COBALT IN BOTTOM MA-TERIAL (UG/G)	TOTAL COPPER IN BOTTOM MA-TERIAL (UG/G)	TOTAL LEAD IN BOTTOM MA-TERIAL (UG/G)	TOTAL MERCURY IN BOTTOM MA-TERIAL (UG/G)	TOTAL NICKEL IN BOTTOM MA-TERIAL (UG/G)	TOTAL ZINC IN BOTTOM MA-TERIAL (UG/G)
APR. 10...	2	0	2	0	5	46	.0	1	17

PESTICIDE ANALYSES, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	ALDRIN IN BOTTOM MA-TERIAL (UG/KG)	LINDANE IN BOTTOM MA-TERIAL (UG/KG)	CHLOR-DANE IN BOTTOM MA-TERIAL (UG/KG)	DDD IN BOTTOM MA-TERIAL (UG/KG)	DDE IN BOTTOM MA-TERIAL (UG/KG)	DDT IN BOTTOM MA-TERIAL (UG/KG)	DI-ELDRIN IN BOTTOM MA-TERIAL (UG/KG)	ENDRIN IN BOTTOM MA-TERIAL (UG/KG)	TOX-APHENE IN BOTTOM MA-TERIAL (UG/KG)	HEPTA-CHLOR IN BOTTOM MA-TERIAL (UG/KG)	HEPTA-CHLOR EPOXIDE IN BOT-TOM MA-TERIAL (UG/KG)	PCB IN BOTTOM MA-TERIAL (UG/KG)
APR. 10...	.0	.0	17	11	4.9	16	.3	.0	0	.0	.0	5

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	TEMPER-ATURE (DEG C)	INSTAN-TANEOUS DIS-CHARGE (CFS)	SUS-PENDED SEDI-MENT (MG/L)	SUS-PENDED SEDI-MENT DIS-CHARGE (T/DAY)	SUS. SED. FALL DIAM. % FINER THAN .002 MM	SUS. SED. FALL DIAM. % FINER THAN .004 MM	SUS. SED. FALL DIAM. % FINER THAN .008 MM
MAR. 19...	1725	10.0	37	121	12	58	73	85
JULY 13...	1315	--	56	170	25	--	83	86

DATE	SUS. SED. FALL DIAM. % FINER THAN .016 MM	SUS. SED. FALL DIAM. % FINER THAN .031 MM	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM	SUS. SED. SIEVE DIAM. % FINER THAN .125 MM	SUS. SED. SIEVE DIAM. % FINER THAN .250 MM	SUS. SED. SIEVE DIAM. % FINER THAN .500 MM	SUS. SED. SIEVE DIAM. % FINER THAN 1.00 MM
MAR. 19...	91	93	98	99	100	--	--
JULY 13...	87	93	95	96	98	99	100

01410787 GREAT EGG HARBOR RIVER TRIBUTARY AT SICKLERVILLE, N. J.--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA
WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

APR. 10, 1975
1000 HOURS

IDENTIFICATION OF PHYTOPLANKTON

1,800 CELLS/ML

	_ORGANISM__NAME	_COMMON__NAME	CELLS/ML	PER_CENT
	CHRYSOPHYTA			
	.BACILLARIOPHYCEAE	DIATOMS		
	..PENNALES	PENNATE		
	...EUNOTIACEAE			
	....EUNOTIA		20	1
	...NAVICULACEAE	NAVICULOID		
	....NAVICULA		61	3
	...NITZSCHIACEAE			
	....NITZSCHIA		81	5
	CYANOPHYTA	BLUE-GREEN ALGAE		
	.MYXOPHYCEAE			
	..OSCILLATORIALES	FILAMENTOUS		
	...OSCILLATORIACEAE			
D	....OSCILLATORIA		1,600	90
	EUGLENOPHYTA	EUGLENOIDS		
	.EUGLENOPHYCEAE			
	..EUGLENALES			
	...EUGLENACEAE			
	....EUGLENA		20	1

NOTE: D - DOMINANT ORGANISM: GREATER OR EQUAL TO 15%
ANALYSIS METHOD: SEDGWICK-RAFTER CHAMBER , 200-X MICROSCOPE
DIVERSITY INDICES, BASED ON ACTUAL COUNTS:
PHYL/DIV 0.532
CLASS 0.532
ORDER 0.532
FAMILY 0.661
GENERA 0.661

01410787 GREAT EGG HARBOR RIVER TRIBUTARY AT SICKLERVILLE, N. J.--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	OCTOBER			NOVEMBER			DECEMBER		
	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	.36	44	.04	.48	11	.01	1.1	37	.11
2	.32	30	.03	.44	10	.01	4.3	45	.52
3	.32	24	.02	.44	8	.01	1.3	60	.21
4	.29	21	.02	.58	9	.01	.48	104	.13
5	.25	19	.01	.80	12	.03	.44	94	.11
6	.25	19	.01	1.5	24	.10	.40	84	.09
7	1.2	18	.06	.53	30	.04	.48	75	.10
8	.22	18	.01	.40	40	.04	5.8	70	1.1
9	.48	17	.02	.40	40	.04	2.8	70	.53
10	.32	16	.01	.40	44	.05	1.7	120	.55
11	.29	17	.01	.48	50	.06	.86	136	.32
12	.29	17	.01	.86	38	.09	.80	96	.21
13	.29	18	.01	1.2	38	.12	.74	60	.12
14	.48	18	.02	.48	33	.04	.86	48	.11
15	.48	21	.03	.44	42	.05	.68	47	.09
16	7.1	66	1.3	.40	43	.05	16	130	6.0
17	1.1	67	.20	.40	45	.05	6.3	90	1.5
18	.58	60	.09	.40	42	.05	2.6	112	.79
19	.48	54	.07	.63	36	.06	2.0	118	.64
20	.44	47	.06	.40	34	.04	1.7	82	.38
21	.58	41	.06	.53	35	.05	1.5	65	.26
22	.40	33	.04	.36	33	.03	1.2	54	.18
23	.44	28	.03	.36	28	.03	1.2	57	.18
24	.48	27	.04	.36	21	.02	1.0	46	.12
25	.44	26	.03	.68	21	.04	1.1	63	.19
26	.40	25	.03	.44	20	.02	1.0	73	.20
27	.40	23	.02	.32	19	.02	1.0	76	.21
28	.68	17	.03	.36	18	.02	1.0	58	.16
29	.40	14	.02	.32	18	.02	.92	35	.09
30	.44	13	.02	.32	17	.01	.86	18	.04
31	.40	12	.02	---	---	---	1.0	14	.04
MONTH	20.68	---	2.37	15.79	---	1.21	63.12	---	15.28

DAY	JANUARY			FEBRUARY			MARCH		
	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	1.4	14	.05	1.5	17	.07	1.7	24	.11
2	1.1	16	.05	1.5	10	.04	1.7	21	.10
3	.92	17	.04	1.4	8	.03	1.7	19	.09
4	.92	15	.04	1.3	9	.03	1.4	17	.06
5	.80	14	.03	3.0	19	.15	1.3	15	.05
6	1.1	13	.04	3.4	40	.44	1.2	13	.04
7	2.3	11	.07	2.6	20	.14	1.2	12	.04
8	1.2	10	.03	2.0	10	.05	1.4	11	.04
9	6.1	61	1.0	1.8	8	.04	1.1	11	.03
10	2.4	63	.41	1.8	8	.04	1.4	13	.05
11	3.2	37	.32	1.3	7	.02	1.2	12	.04
12	2.3	87	.54	1.7	6	.03	2.2	20	.12
13	7.3	80	1.6	1.6	5	.02	2.1	20	.11
14	4.6	48	.60	1.3	6	.02	5.1	23	.32
15	2.4	40	.26	1.3	6	.02	3.4	23	.21
16	1.9	44	.23	1.4	6	.02	2.3	22	.14
17	1.6	38	.16	2.2	8	.05	1.9	16	.08
18	4.6	22	.27	2.6	11	.08	1.6	16	.07
19	4.8	85	1.1	2.0	13	.07	17	90	4.1
20	4.9	41	.54	1.7	16	.07	13	92	3.2
21	2.9	13	.10	1.5	15	.06	4.5	54	.66
22	2.4	13	.08	1.3	12	.04	3.4	32	.29
23	2.1	12	.07	4.8	50	.65	3.1	18	.15
24	2.0	10	.05	6.3	70	1.2	7.3	58	1.1
25	5.6	16	.24	5.3	94	1.3	6.9	102	1.9
26	5.1	114	1.6	2.8	59	.45	3.8	50	.51
27	2.9	93	.73	2.2	44	.26	2.8	36	.27
28	2.1	55	.31	1.9	32	.16	2.6	30	.21
29	1.9	31	.16	---	---	---	2.4	27	.18
30	1.7	27	.12	---	---	---	4.1	25	.28
31	1.7	25	.11	---	---	---	3.9	24	.25
MONTH	86.24	---	10.95	63.5	---	5.55	108.7	---	14.80

01410787 GREAT EGG HARBOR RIVER TRIBUTARY AT SICKLERVILLE, N. J.--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

	APRIL			MAY			JUNE		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	2.8	20	.15	2.3	21	.13	2.3	63	.39
2	2.2	14	.08	2.5	20	.14	1.8	70	.34
3	4.6	55	.68	2.2	19	.11	1.7	41	.19
4	3.2	74	.64	6.0	74	1.2	1.1	38	.11
5	2.5	51	.34	4.8	30	.39	2.3	37	.23
6	2.2	33	.20	3.3	14	.12	10	122	3.3
7	2.4	18	.12	3.1	18	.15	3.1	73	.61
8	1.8	12	.06	2.6	21	.15	2.0	47	.25
9	1.8	9	.04	2.2	29	.17	1.8	32	.16
10	1.6	8	.03	2.0	24	.13	1.3	31	.11
11	1.6	8	.03	1.8	21	.10	1.1	32	.10
12	1.5	10	.04	1.9	22	.11	4.8	56	.73
13	1.5	9	.04	3.6	25	.24	3.9	36	.38
14	1.5	7	.03	2.5	30	.20	2.2	23	.14
15	2.2	8	.05	2.8	36	.19	1.5	27	.11
16	2.4	9	.06	6.6	56	1.0	2.4	16	.10
17	1.9	9	.05	3.5	35	.33	1.7	25	.11
18	1.8	10	.05	2.6	29	.20	.84	52	.12
19	1.8	11	.05	2.6	30	.21	.84	50	.11
20	1.7	15	.07	1.8	34	.17	.78	18	.04
21	1.4	14	.05	2.3	33	.21	.60	26	.04
22	1.4	19	.07	5.1	100	1.4	.60	25	.04
23	1.3	22	.08	2.4	39	.25	.84	24	.05
24	1.8	20	.10	2.0	30	.16	1.1	24	.07
25	11	60	1.8	1.5	27	.11	1.4	23	.09
26	14	92	3.5	1.5	26	.11	1.0	20	.05
27	4.5	32	.39	1.8	28	.14	.68	17	.03
28	3.5	21	.20	1.1	34	.10	.64	15	.03
29	3.9	13	.14	1.1	36	.11	.64	14	.02
30	3.8	16	.13	1.6	41	.10	.60	15	.02
31	---	---	---	1.4	37	.14	---	---	---
MONTH	80.8	---	9.27	81.7	---	8.35	55.56	---	8.07

	JULY			AUGUST			SEPTEMBER		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	.51	14	.02	.73	18	.04	.45	31	.04
2	.45	12	.01	.73	17	.03	.60	28	.05
3	.51	12	.02	.60	12	.02	.42	22	.03
4	.55	12	.02	1.3	14	.05	.42	20	.02
5	.45	14	.02	1.7	24	.11	.42	26	.03
6	.64	16	.03	3.6	65	.63	.42	23	.03
7	2.8	56	.42	2.5	86	.58	.42	38	.04
8	1.5	72	.29	1.2	41	.13	1.4	26	.10
9	.60	30	.05	.84	32	.07	.90	21	.05
10	.73	20	.04	.73	25	.05	.30	33	.03
11	1.0	18	.05	1.9	13	.07	.30	33	.03
12	.60	18	.03	1.5	15	.06	1.4	42	.16
13	32	125	11	.73	24	.05	.97	70	.18
14	16	70	3.0	.78	26	.05	.45	30	.04
15	27	45	3.3	.64	27	.05	.55	26	.04
16	6.6	23	.41	18	92	4.5	.37	25	.03
17	3.5	22	.21	4.6	79	.98	.37	23	.02
18	2.6	22	.15	2.4	60	.39	.37	22	.02
19	2.2	22	.13	1.8	52	.25	.60	21	.03
20	1.9	22	.11	1.1	46	.14	.45	19	.02
21	6.7	76	1.4	.97	40	.10	.40	16	.02
22	2.5	46	.31	.84	32	.07	.64	14	.02
23	1.8	30	.15	.73	28	.06	9.0	52	1.3
24	1.5	21	.09	.78	26	.05	19	81	4.2
25	1.4	16	.06	.90	24	.06	17	77	3.5
26	1.3	13	.05	.64	22	.04	13	50	1.8
27	1.2	11	.04	.60	21	.03	7.5	37	.75
28	1.3	11	.04	.55	20	.03	3.6	28	.27
29	.90	14	.03	.51	20	.03	2.7	24	.18
30	.84	17	.04	.51	21	.03	2.2	23	.14
31	.73	18	.04	.45	33	.04	---	---	---
MONTH	122.31	---	21.56	54.94	---	8.79	86.62	---	13.17
YEAR	847.96		119.37						

01410788 GREAT EGG HARBOR RIVER AT WINSLOW CROSSING, N. J.

LOCATION.--Lat 39°42'06", long 74°56'16", Camden County, below New Brooklyn Lake at bridge on New Brooklyn Road.

DRAINAGE AREA.--22 mi² (57 km²).

PERIOD OF RECORD.--Chemical analyses: January 1972 to September 1973 (partial-record station), October 1973 to September 1975.

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	DIS-SOLVED OXYGEN (MG/L)	BIO-CHEM-ICAL OXYGEN DEMAND 5 DAY (MG/L)	IMME-DIATE COLI-FORM (COL. PER 100 ML)	FECAL COLI-FORM (COL. PER 100 ML)	STREP-TOCOCCI (COL-ONIES PER 100 ML)
OCT.									
30...	1130	14.5	84	6.3	7.8	1.4	1100	50	40
NOV.									
27...	1125	3.4	85	7.4	12.6	.5	75	10	85
JAN.									
02...	1005	2.2	76	5.7	12.9	.8	176	4	48
17...	0940	1.0	88	4.9	11.4	5.1	640	38	68

DATE	TOTAL ORGANIC NITRO-GEN (N) (MG/L)	AMMONIA NITRO-GEN (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	TOTAL ORTHO PHOS-PHORUS (P) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
OCT.									
30...	.00	.34	.00	.87	.34	1.2	.42	.36	8.2
NOV.									
27...	--	.13	.02	1.4	--	--	.42	.37	8.3
JAN.									
02...	.02	.24	.01	.90	.26	1.1	.24	.21	--
17...	.32	.23	.01	.58	.55	1.1	.17	.17	12

394203074562901 WEST OUTLET NEW BROOKLYN LAKE AT WINSLOW CROSSING, N. J.

LOCATION.--Lat 39°42'03", long 74°56'29", Camden County, at bridge at intersection of New Brooklyn Road and Malaga Road, 600 ft (183 m) west of Great Egg Harbor River at Winslow Crossing.

DRAINAGE AREA.--22.8 mi² (59.0 km²).

PERIOD OF RECORD.--Chemical analyses: April 1973 to September 1975 (partial-record station).

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	AIR TEMPER-ATURE (DEG C)	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	DIS-SOLVED OXYGEN (MG/L)	BIO-CHEM-ICAL OXYGEN DEMAND 5 DAY (MG/L)	CHEM-ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	IMME-DIATE COLI-FORM (COL. PER 100 ML)	FECAL COLI-FORM (EC BROTH) (MPN)
FEB. 25...	1035	6.5	9.0	79	5.6	8.8	3.1	31	520	--
MAR. 25...	1130	--	11.0	63	5.2	9.0	1.8	30	--	33
APR. 10...	1245	--	10.3	78	5.3	13.7	4.6	19	--	<20
MAY 14...	1115	--	20.5	66	6.1	7.5	2.4	37	--	23
JUNE 10...	1045	--	17.0	59	4.5	5.4	1.9	60	--	240
JULY 17...	1415	--	26.0	41	4.5	3.2	3.6	82	--	69
AUG. 13...	1230	--	25.3	82	6.0	4.7	5.8	59	--	498
SEP. 11...	1050	--	16.9	73	4.5	3.9	1.5	38	--	--

DATE	FECAL COLI-FORM (COL. PER 100 ML)	STREP-TOCOCCI (COL-ONIES PER 100 ML)	TOTAL ORGANIC NITRO-GEN (N) (MG/L)	DIS-SOLVED ORGANIC NITRO-GEN (N) (MG/L)	AMMONIA NITRO-GEN (N) (MG/L)	DIS-SOLVED AMMONIA NITRO-GEN (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	DIS-SOLVED NITRITE (N) (MG/L)	TOTAL NITRATE (N) (MG/L)	DIS-SOLVED NITRATE (N) (MG/L)
FEB. 25...	160	180	.24	--	.39	--	.01	--	.61	--
MAR. 25...	640	1520	.24	.18	.14	.14	.01	.01	.60	.60
APR. 10...	40	--	.54	--	.03	--	.00	--	1.1	--
MAY 14...	52	50	.53	.38	.06	.01	.02	.01	.80	.81
JUNE 10...	--	620	.71	--	.07	--	.02	--	.45	--
JULY 17...	240	550	.81	--	.19	--	.01	--	.12	--
AUG. 13...	344	32	.50	--	.06	--	.02	--	.34	--
SEP. 11...	16	24	.78	--	.11	--	.01	--	.04	--

DATE	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	DIS-SOLVED KJEL. NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOL-VED-PHOS-PHORUS (P) (MG/L)	TOTAL ORTHO PHOS-PHORUS (P) (MG/L)	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)	DIS-SOLVED ORTHO PHOS-PHATE (PO4) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)	DIS-SOL-VED ORGANIC CARBON (C) (MG/L)
FEB. 25...	.63	--	1.3	.16	--	.09	--	--	17	--
MAR. 25...	.38	32	.99	.13	.11	.08	.06	.18	14	13
APR. 10...	.57	--	1.7	.24	--	.05	--	--	17	--
MAY 14...	.59	.39	1.4	.22	.19	.18	.15	.46	17	3.7
JUNE 10...	.79	--	1.3	.22	--	.16	--	--	45	45
JULY 17...	1.0	--	1.1	.18	--	.13	--	--	34	--
AUG. 13...	.56	--	.92	.21	--	.16	--	--	24	24
SEP. 11...	.89	--	.94	.09	--	.04	--	--	21	21

394203074562901 WEST OUTLET NEW BROOKLYN LAKE AT WINSLOW CROSSING, N. J.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	COD IN BOTTOM MA-TERIAL (MG/KG)	TOTAL AMMONIA NITRO-GEN IN BOTTOM MAT. (MG/KG)	TOTAL NITRITE PLUS NITRATE IN BOT. MAT. (MG/KG)	TOTAL KJEL. NITRO-GEN IN BOTTOM MAT. (MG/KG)	TOTAL NITRO-GEN IN BOTTOM MATERI-AL (N) (MG/KG)	TOTAL PHOS-PHORUS IN BOT-TOM MA-TERIAL (MG/KG)	ORGANIC CARBON IN BOT-TOM MA-TERIAL (C) (G/KG)	IN-ORGANIC CARBON IN BOT-TOM MA-TERIAL (G/KG)	TOTAL IRON IN BOTTOM MA-TERIAL (UG/G)	TOTAL MANGA-NESE IN BOTTOM MA-TERIAL (UG/G)
APR. 10...	45000	16	1.3	886	887	130	12	1.5	2900	26

DATE	TOTAL ARSENIC IN BOTTOM MA-TERIAL (UG/G)	TOTAL CADMIUM IN BOTTOM MA-TERIAL (UG/G)	TOTAL CHRO-MIUM IN BOTTOM MA-TERIAL (UG/G)	TOTAL COBALT IN BOTTOM MA-TERIAL (UG/G)	TOTAL COPPER IN BOTTOM MA-TERIAL (UG/G)	TOTAL LEAD IN BOTTOM MA-TERIAL (UG/G)	TOTAL MERCURY IN BOTTOM MA-TERIAL (UG/G)	TOTAL NICKEL IN BOTTOM MA-TERIAL (UG/G)	TOTAL ZINC IN BOTTOM MA-TERIAL (UG/G)
APR. 10...	4	0	3	1	1	49	.0	4	26

PESTICIDE ANALYSES, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	ALDRIN IN BOTTOM MA-TERIAL (UG/KG)	LINDANE IN BOTTOM MA-TERIAL (UG/KG)	CHLOR-DANE IN BOTTOM MA-TERIAL (UG/KG)	DDD IN BOTTOM MA-TERIAL (UG/KG)	DDE IN BOTTOM MA-TERIAL (UG/KG)	DDT IN BOTTOM MA-TERIAL (UG/KG)	DI-ELDRIN IN BOTTOM MA-TERIAL (UG/KG)	ENDRIN IN BOTTOM MA-TERIAL (UG/KG)	TOX-APHENE IN BOTTOM MA-TERIAL (UG/KG)	HEPTA-CHLOR IN BOTTOM MA-TERIAL (UG/KG)	HEPTA-CHLOR EPOXIDE IN BOT-TOM MA-TERIAL (UG/KG)	PCB IN BOTTOM MA-TERIAL (UG/KG)
APR. 10...	.0	.0	16	5.0	3.0	29	.0	.2	0	.0	<.1	13

394203074562901 WEST OUTLET NEW BROOKLYN LAKE AT WINSLOW CROSSING, N. J.--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA
WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

PERIPHYTON

DATE	EXPOSURE LENGTH (DAYS)	BIOMASS DRY WEIGHT (G/SQ M)	BIOMASS ASH WEIGHT (G/SQ M)	CHLORO-PHYLL A (MG/SQ M)	CHLORO-PHYLL B (MG/SQ M)	BIOMASS PIGMENT RATIO	SAMPLING METHOD
APR. 29...	33	7.8	3.3	22	4.5	170	POLY-ETHYLENE STRIP

APR. 10, 1975
1245 HOURS

IDENTIFICATION OF PHYTOPLANKTON

1,200 CELLS/ML

	ORGANISM NAME	COMMON NAME	CELLS/ML	PERCENT
	CHLOROPHYTA	GREEN ALGAE		
	.CHLOROPHYCEAE			
	..VOLVOCALES			
	...POLYBLEPHARIDACEAE			
	....CHLAMYDOMONAS		12	1
	..OEDOGONIALES			
	...OEDOGONIACEAE			
D	....OEDOGONIUM		432	36
	..CHLOROCOCCALES			
	...OOCYSTACEAE			
	....ANKISTRODESMUS		12	1
	..ZYGNEMATALES			
	...DESMIDIACEAE	PLACODERM DESMIDS		
D	....DESMIDIUM		264	22
	EUGLENOPHYTA	EUGLENOIDS		
	.EUGLENOPHYCEAE			
	..EUGLENALES			
	...EUGLENACEAE			
	....EUGLENA		12	1
	PYRRHOPHYTA			
	.DINOPHYCEAE	DINOFLAGELLATES		
	..PERIDINIALES			
	...GLENODINIACEAE			
	....GLENODINIUM		24	2
	CHRYSOPHYTA			
	.BACILLARIOPHYCEAE	DIATOMS		
	..CENTRALES	CENTRIC		
	...COSCINODISCACEAE			
	....CYCLOTELLA		36	3
	..PENNALES	PENNATE		
	...TABELLARIACEAE			
	....TABELLARIA		60	5
	...FRAGILARIACEAE			
	....SYNEDRA		144	12
	...EUNOTIACEAE			
	....EUNOTIA		96	8
	...NAVICULACEAE	NAVICULOID		
	....GYROSIGMA		12	1
	....NEIDIUM		36	3
	...GOMPHONEMATACEAE			
	....GOMPHONEMA		12	1
	...CYMBELLACEAE			
	....CYMBELLA		12	1
	...NITZSCHIACEAE			
	....HANTZSCHIA		12	1
	....NITZSCHIA		36	3

NOTE: D - DOMINANT ORGANISM: GREATER OR EQUAL TO 15%
ANALYSIS METHOD: SEDGWICK-RAFTER CHAMBER, 200-X MICROSCOPE

394222074570601 EAST STORM DRAIN-WINSLOW CROSSING NEAR SICKLERVILLE, N. J.

LOCATION.--39°42'42", long 74°57'06", Camden County, eastside of Sicklerville Road, 0.5 mi (0.8 km) northwest of Sicklerville-New Brooklyn Road.

DRAINAGE AREA.--0.29 mi² (0.75 km²).

PERIOD OF RECORD.--Chemical analyses: May 1973 to September 1973, water year 1975 (partial-record station), October 1973 to September 1974.

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	DIS-SOLVED OXYGEN (MG/L)	BIO-CHEM-ICAL OXYGEN DEMAND 5 DAY (MG/L)	CHEM-ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	FECAL COLI-FORM (EC BROTH) (MPN)	FECAL COLI-FORM (COL. PER 100 ML)	STREP-TOCOCCI (COL-ONIES PER 100 ML)
JULY										
17...	1030	25.5	196	6.5	4.4	2.4	14	790	600	940

DATE	TOTAL ORGANIC NITRO-GEN (N) (MG/L)	AMMONIA NITRO-GEN (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	TOTAL ORTHO PHOS-PHORUS (P) (MG/L)	DIS-SOL-VED ORGANIC CARBON (C) (MG/L)
JULY									
17...	.26	.32	.02	.98	.58	1.6	.05	.02	22

01410789 GREAT EGG HARBOR RIVER TRIBUTARY NO. 2 AT WINSLOW CROSSING, N. J.

LOCATION.--Lat 39°42'20", long 74°57'07", Camden County, on Sicklerville Road, 1.2 mi (1.9 km) southeast of Winslow Crossing at head of storm sewer which runs into Great Egg Harbor River 0.7 mi (1.1 km) downstream.

DRAINAGE AREA.--0.52 mi² (1.35 km²).

PERIOD OF RECORD.--Chemical analyses: Water year 1972 (partial-record station), October 1972 to September 1975.

REMARKS.--Miscellaneous storm sediment samples collected during water years 1973-75.

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	AIR TEMPER-ATURE (DEG C)	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	DIS-SOLVED OXYGEN (MG/L)	BIO-CHEM-ICAL OXYGEN DEMAND 5 DAY (MG/L)	CHEM-ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	IMME-DIATE COLI-FORM (COL. PER 100 ML)	FECAL COLI-FORM (EC BROTH) (MPN)
OCT.										
30...	1140	--	16.5	140	6.7	11.4	.5	9	1600	--
NOV.										
27...	1150	--	3.2	188	7.4	13.0	.2	--	60	--
JAN.										
02...	0945	--	2.0	174	6.6	12.2	.3	--	244	--
17...	0920	--	1.0	310	7.0	12.4	4.0	--	596	--
FEB.										
25...	1025	7.6	8.0	147	6.4	9.9	1.2	17	940	--
MAR.										
26...	0830	--	7.5	190	6.2	7.9	.8	22	--	33
APR.										
10...	0915	21.0	6.2	414	6.9	9.9	2.3	6	--	5
MAY										
14...	1030	--	16.0	147	6.1	8.1	8.4	--	--	--
14...	1520	--	25.0	147	7.1	12.4	8.4	17	--	920
JUNE										
10...	1300	--	22.3	681	6.2	8.7	3.6	5	--	49
AUG.										
13...	1310	--	26.1	283	6.9	10.2	1.8	10	--	330
SEP.										
11...	1120	--	15.4	192	5.8	6.8	3.0	7	--	--

DATE	FECAL COLI-FORM (COL. PER 100 ML)	STREP-TOCOCCI (COL-ONIES PER 100 ML)	TOTAL ORGANIC NITRO-GEN (N) (MG/L)	DIS-SOLVED ORGANIC NITRO-GEN (N) (MG/L)	AMMONIA NITRO-GEN (N) (MG/L)	DIS-SOLVED AMMONIA NITRO-GEN (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	DIS-SOLVED NITRITE (N) (MG/L)	TOTAL NITRATE (N) (MG/L)	DIS-SOLVED NITRATE (N) (MG/L)
OCT.										
30...	450	600	.17	--	.11	--	.01	--	1.6	--
NOV.										
27...	70	20	.09	--	.09	--	.02	--	3.6	--
JAN.										
02...	70	116	.18	--	.03	--	.01	--	2.6	--
17...	0	10	.17	--	.06	--	.02	--	2.2	--
FEB.										
25...	124	44	.02	--	.11	--	.01	--	1.4	--
MAR.										
26...	86	92	.41	.24	.13	.13	.02	.02	1.2	--
APR.										
10...	16	12	2.1	--	.07	--	.01	--	3.3	--
MAY										
14...	36	80	--	--	--	--	--	--	--	--
14...	36	80	.53	.53	.06	.06	.02	.02	1.9	1.9
JUNE										
10...	--	160	.17	--	.02	--	.04	--	3.0	--
AUG.										
13...	320	280	1.5	--	.02	--	.02	--	2.5	--
SEP.										
11...	12	120	.21	--	.02	--	.02	--	2.9	--

DATE	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	DIS-SOLVED KJEL. NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOL-VED-PHOS-PHORUS (P) (MG/L)	TOTAL ORTHO PHOS-PHORUS (P) (MG/L)	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)	DIS-SOLVED ORTHO PHOS-PHATE (PO4) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)	DIS-SOL-VED ORGANIC CARBON (C) (MG/L)
OCT.										
30...	.28	--	1.9	.04	--	.00	--	--	2.0	--
NOV.										
27...	.18	--	3.8	.08	--	.00	--	--	4.4	--
JAN.										
02...	.21	--	2.8	.02	--	.00	--	--	--	--
17...	.23	--	2.4	.01	--	.01	--	--	3.3	--
FEB.										
25...	.13	--	1.5	.04	--	.01	--	--	6.5	--
MAR.										
26...	.54	.37	1.7	.07	.01	.02	.00	.00	5.0	--
APR.										
10...	2.2	--	5.5	.02	--	.00	--	--	2.7	--
MAY										
14...	--	--	--	--	--	--	--	--	--	--
14...	.59	--	2.5	.07	.02	.03	.00	.00	5.6	5.6
JUNE										
10...	.19	--	3.2	.03	--	.00	--	--	2.2	2.2
AUG.										
13...	1.5	--	4.0	.03	--	.01	--	--	6.4	6.4
SEP.										
11...	.23	--	3.1	.01	--	.01	--	--	--	6.9

01410789 GREAT EGG HARBOR RIVER TRIBUTARY No. 2 WINSLOW CROSSING, N. J.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	COD IN BOTTOM MA-TERIAL (MG/KG)	TOTAL AMMONIA NITRO-GEN IN BOTTOM MAT. (MG/KG)	TOTAL NITRITE PLUS NITRATE IN BOT. MAT. (MG/KG)	TOTAL KJEL. NITRO-GEN IN BOTTOM MAT. (MG/KG)	TOTAL NITRO-GEN IN BOTTOM MATERI-AL (N) (MG/KG)	TOTAL PHOS-PHORUS IN BOT-TOM MA-TERIAL (MG/KG)	ORGANIC CARBON IN BOT-TOM MA-TERIAL (C) (G/KG)	IN-ORGANIC CARBON IN BOT-TOM MA-TERIAL (G/KG)	TOTAL IRON IN BOTTOM MA-TERIAL (UG/G)	TOTAL MANGA-NESE IN BOTTOM MA-TERIAL (UG/G)
APR. 10...	7700	4.0	1.0	78	71	27	1.2	1.4	2200	10

DATE	TOTAL ARSENIC IN BOTTOM MA-TERIAL (UG/G)	TOTAL CADMIUM IN BOTTOM MA-TERIAL (UG/G)	TOTAL CHRO-MIUM IN BOTTOM MA-TERIAL (UG/G)	TOTAL COBALT IN BOTTOM MA-TERIAL (UG/G)	TOTAL COPPER IN BOTTOM MA-TERIAL (UG/G)	TOTAL LEAD IN BOTTOM MA-TERIAL (UG/G)	TOTAL MERCURY IN BOTTOM MA-TERIAL (UG/G)	TOTAL NICKEL IN BOTTOM MA-TERIAL (UG/G)	TOTAL ZINC IN BOTTOM MA-TERIAL (UG/G)
APR. 10...	2	0	3	1	1	6	.0	2	3

PESTICIDE ANALYSES, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	ALDRIN IN BOTTOM MA-TERIAL (UG/KG)	LINDANE IN BOTTOM MA-TERIAL (UG/KG)	CHLOR-DANE IN BOTTOM MA-TERIAL (UG/KG)	DDD IN BOTTOM MA-TERIAL (UG/KG)	DDE IN BOTTOM MA-TERIAL (UG/KG)	DDT IN BOTTOM MA-TERIAL (UG/KG)	DI-ELDRIN IN BOTTOM MA-TERIAL (UG/KG)	ENDRIN IN BOTTOM MA-TERIAL (UG/KG)	TOX-APHENE IN BOTTOM MA-TERIAL (UG/KG)	HEPTA-CHLOR IN BOTTOM MA-TERIAL (UG/KG)	HEPTA-CHLOR EPOXIDE IN BOT-TOM MA-TERIAL (UG/KG)	PCB IN BOTTOM MA-TERIAL (UG/KG)
APR. 10...	.0	.0	0	3.0	1.0	1.3	.3	.0	0	.0	.0	0

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA
WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

PERIPHYTON

DATE	EXPOSURE LENGTH (DAYS)	BIOMASS DRY WEIGHT (G/SQ M)	BIOMASS ASH WEIGHT (G/SQ M)	CHLORO-PHYLL A (MG/SQ M)	CHLORO-PHYLL B (MG/SQ M)	BIOMASS PIGMENT RATIO	SAMPLING METHOD
APR. 29...	33	8.2	5.0	3.4	0.5	720	POLY-ETHYLENE STRIP

APR. 10, 1975
0915 HOURS

IDENTIFICATION OF PHYTOPLANKTON

1,100 CELLS/ML

	_ORGANISM__NAME	_COMMON__NAME	CELLS/ML	PER_CENT
	CHRYSOPHYTA			
	.BACILLARIOPHYCEAE	DIATOMS		
	..PENNALES	PENNATE		
	...CYMBELLACEAE			
	....CYMBELLA		97	9
	...FRAGILARIACEAE			
D	....SYNEDRA		320	29
	...GOMPHONEMATACEAE			
	....GOMPHONEMA		32	3
	...MERIDIONACEAE			
	....MERIDION		32	3
	...NAVICULACEAE	NAVICULOID		
D	....NAVICULA		450	41
	...NITZSCHIACEAE			
D	....NITZSCHIA		160	15

NOTE: D - DOMINANT ORGANISM: GREATER OR EQUAL TO 15%
ANALYSIS METHOD: SEDGWICK-RAFTER CHAMBER , 200-X MICROSCOPE
DIVERSITY INDICES, BASED ON ACTUAL COUNTS:
FAMILY 2.061
GENERA 2.061

01410803 FOURMILE BRANCH AT WINSLOW CROSSING, N.J.

LOCATION.--Lat 39°42'07", long 74°58'11", Camden County, at partial-record gaging station at bridge on Andrews Road, 1.4 mi (2.2 km) northeast of Williamstown.

DRAINAGE AREA.--6.19 mi² (21.8 km²).

PERIOD OF RECORD.--Chemical analyses: January 1972 to September 1975.

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	AIR TEMPER-ATURE (DEG C)	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	DIS-SOLVED OXYGEN (MG/L)	BIO-CHEM-ICAL OXYGEN DEMAND 5 DAY (MG/L)	CHEM-ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	IMME-DIATE COLI-FORM (COL. PER 100 ML)	FECAL COLI-FORM (EC BROTH) (MPN)
OCT. 30...	1105	--	13.5	66	5.6	8.2	1.1	10	1200	--
NOV. 27...	1320	--	6.7	45	5.2	11.4	.1	--	730	--
JAN. 02...	1035	--	6.4	68	3.8	10.7	.8	--	480	--
17...	1105	--	4.4	116	4.0	10.0	4.0	--	970	--
FEB. 25...	1115	.5	9.5	99	4.8	7.8	4.7	50	1560	--
MAR. 26...	1100	--	7.0	67	4.3	8.4	.8	90	--	9
APR. 10...	1100	--	8.9	53	5.4	10.0	1.7	30	--	540
MAY 14...	1355	--	16.6	50	5.3	9.3	.4	29	--	79
JUNE 11...	1030	--	15.2	48	5.8	7.9	3.6	93	--	200
JULY 17...	1230	--	21.0	45	4.9	6.2	--	65	--	130
AUG. 13...	1200	--	19.5	143	--	7.8	1.9	25	--	33
SEP. 11...	0930	--	12.0	55	4.4	8.6	1.0	8	--	--

DATE	FECAL COLI-FORM (COL. PER 100 ML)	STREP-TOCOCCI (COL-ONIES PER 100 ML)	TOTAL ORGANIC NITRO-GEN (N) (MG/L)	DIS-SOLVED ORGANIC NITRO-GEN (N) (MG/L)	AMMONIA NITRO-GEN (N) (MG/L)	DIS-SOLVED AMMONIA NITRO-GEN (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	DIS-SOLVED NITRITE (N) (MG/L)	TOTAL NITRATE (N) (MG/L)	DIS-SOLVED NITRATE (N) (MG/L)
OCT. 30...	40	50	.06	--	.09	--	.00	--	1.1	--
NOV. 27...	0	400	.17	--	.12	--	.01	--	1.4	--
JAN. 02...	12	112	.35	--	.05	--	.00	--	.95	--
17...	12	64	.24	--	.07	--	.01	--	.85	--
FEB. 25...	194	78	.71	--	.17	--	.01	--	.53	--
MAR. 26...	--	316	.51	.14	.08	.08	.01	.01	.67	.66
APR. 10...	720	20	.21	--	.01	--	.00	--	1.3	--
MAY 14...	56	1000	.66	.50	.01	.01	.01	.01	.96	.96
JUNE 11...	--	2100	1.9	--	.03	--	.01	--	1.3	--
JULY 17...	162	880	.68	--	.21	--	.01	--	.53	--
AUG. 13...	24	210	.53	--	.00	--	.01	--	1.4	--
SEP. 11...	76	170	.13	--	.01	--	.01	--	1.9	--

DATE	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	DIS-SOLVED KJEL. NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOL-VED-PHOS-PHORUS (P) (MG/L)	TOTAL ORTHO PHOS-PHORUS (P) (MG/L)	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)	DIS-SOLVED ORTHO PHOS-PHATE (PO4) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)	DIS-SOL-VED ORGANIC CARBON (C) (MG/L)
OCT. 30...	.15	--	1.3	.01	--	.00	--	--	11	--
NOV. 27...	.29	--	1.7	.00	--	.01	--	--	4.5	--
JAN. 02...	.40	--	1.4	.01	--	.00	--	--	--	--
17...	.31	--	1.2	.01	--	.06	--	--	7.8	--
FEB. 25...	.88	--	1.4	.06	--	.01	--	--	10	--
MAR. 26...	.59	.22	1.3	.03	.01	.01	.01	.03	16	16
APR. 10...	.22	--	1.5	.10	--	.01	--	--	8.4	--
MAY 14...	.67	.51	1.6	.03	.01	.01	.00	.00	14	12
JUNE 11...	1.9	--	3.2	.14	--	.04	--	--	19	8.6
JULY 17...	.89	--	1.4	.05	--	.03	--	--	29	19
AUG. 13...	.53	--	1.9	.04	--	.04	--	--	14	10
SEP. 11...	.14	--	2.0	.03	--	.01	--	--	6.4	5.7

01410803 FOURMILE BRANCH AT WINSLOW CROSSING, N. J.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	COD IN BOTTOM MATERIAL (MG/KG)	TOTAL AMMONIA NITROGEN IN BOTTOM MAT. (MG/KG)	TOTAL NITRITE PLUS NITRATE IN BOT. MAT. (MG/KG)	TOTAL KJEL. NITROGEN IN BOTTOM MAT. (MG/KG)	TOTAL NITROGEN IN BOTTOM MATERIAL (N) (MG/KG)	TOTAL PHOSPHORUS IN BOTTOM MATERIAL (MG/KG)	ORGANIC CARBON IN BOTTOM MATERIAL (C) (G/KG)	INORGANIC CARBON IN BOTTOM MATERIAL (G/KG)	TOTAL IRON IN BOTTOM MATERIAL (UG/G)	TOTAL MANGANESE IN BOTTOM MATERIAL (UG/G)
APR.										
10...	170000	13	2.4	1080	1090	40	16	.6	2400	6

DATE	TOTAL ARSENIC IN BOTTOM MATERIAL (UG/G)	TOTAL CADMIUM IN BOTTOM MATERIAL (UG/G)	TOTAL CHROMIUM IN BOTTOM MATERIAL (UG/G)	TOTAL COBALT IN BOTTOM MATERIAL (UG/G)	TOTAL COPPER IN BOTTOM MATERIAL (UG/G)	TOTAL LEAD IN BOTTOM MATERIAL (UG/G)	TOTAL MERCURY IN BOTTOM MATERIAL (UG/G)	TOTAL NICKEL IN BOTTOM MATERIAL (UG/G)	TOTAL ZINC IN BOTTOM MATERIAL (UG/G)
APR.									
10...	7	0	7	1	8	10	.0	2	19

PESTICIDE ANALYSES, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	ALDRIN IN BOTTOM MATERIAL (μG/KG)	LINDANE IN BOTTOM MATERIAL (μG/KG)	CHLORDANE IN BOTTOM MATERIAL (μG/KG)	DDD IN BOTTOM MATERIAL (μG/KG)	DDE IN BOTTOM MATERIAL (μG/KG)	DDT IN BOTTOM MATERIAL (μG/KG)	DIELDRIN IN BOTTOM MATERIAL (μG/KG)	ENDRIN IN BOTTOM MATERIAL (μG/KG)	TOXAPHENE IN BOTTOM MATERIAL (μG/KG)	HEPTACHLOR IN BOTTOM MATERIAL (μG/KG)	HEPTACHLOR EPOXIDE IN BOTTOM MATERIAL (μG/KG)	PCB IN BOTTOM MATERIAL (μG/KG)
APR.												
10...	.0	.0	0	0.7	1.4	2.7	.3	.0	0	.0	.0	3

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

PERIPHYTON

DATE	EXPOSURE LENGTH (DAYS)	BIOMASS DRY WEIGHT (G/SQ M)	BIOMASS ASH WEIGHT (G/SQ M)	CHLOROPHYLL A (MG/SQ M)	CHLOROPHYLL B (MG/SQ M)	BIOMASS PIGMENT RATIO	SAMPLING METHOD
APR.							
29...	33	3.5	1.2	2.3	0.5	1000	POLYETHYLENE STRIP

BENTHIC INVERTEBRATES

DATE AND TIME	EXPOSURE LENGTH (DAYS)	ORGANISM	ORGANISM COUNT (NO/SQ M)	DIVERSITY INDEX	BIOMASS WET WEIGHT (G/SQ M)	SAMPLING METHOD
APR.						
29...	33	ARTHROPODA				
AT		CRUSTACEA		0.8	4	MULTIPLATE
1120		ISOPODA	6			ARTIFICIAL
		INSECTA				SUBSTRATE
		DIPTERA				
		CHIRONOMIDAE	95			
		TRICHOPTERA	9			
		PLECOPTERA	1			
		MEGALOPTERA	1			
		TOTAL =	112			

*** DIVERSITY INDICES ***

LEVEL	TAXA	COUNT	DIVERSITY	REDUNDANCY
INSECTA,				
GENERA :	(NOT CALCULABLE)			
ORDER :	5	112	0.84	0.71
CLASS :	2	112	0.30	0.73

01410803 FOURMILE BRANCH AT WINSLOW CROSSING, N. J.--Continued
QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA
WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

APR. 10, 1975
1100 HOURS

IDENTIFICATION OF PHYTOPLANKTON

13,000 CELLS/ML

	_ORGANISM__NAME_______________	_COMMON__NAME_______	CELLS/ML	PER_CENT
	CHLOROPHYTA	GREEN ALGAE		
	.CHLOROPHYCEAE			
	..TETRASPORALES			
	...TETRASPORACEAE			
D	....TETRASPORA		12,000	99
	CHRYSOPHYTA			
	.BACILLARIOPHYCEAE	DIATOMS		
	..PENNALES	PENNATE		
	...EUNOTIACEAE			
L	....EUNOTIA			0
	...FRAGILARIACEAE			
	....FRAGILARIA		87	1
	...NAVICULACEAE	NAVICULOID		
L	....NAVICULA			0

NOTE: D - DOMINANT ORGANISM: GREATER OR EQUAL TO 15%
L - LESS THEN 15: MAY NOT HAVE BEEN ACTUALLY COUNTED
ANALYSIS METHOD: SEDGWICK-RAFTER CHAMBER , 200-X MICROSCOPE
DIVERSITY INDICES, BASED ON ACTUAL COUNTS:
PHYL/DIV 0.105
CLASS 0.105
ORDER 0.105
FAMILY 0.126
GENERA 0.126

01410810 FOURMILE BRANCH AT NEW BROOKLYN, N. J.

LOCATION.--Lat 39°41'47", long 74°56'25", Camden County, 70 ft (21 m) downstream from gaging station at bridge on Malaga Road, 0.3 mi (0.5 km) northeast of New Brooklyn and 0.3 mi (0.5 km) upstream from mouth.

DRAINAGE AREA.--7.74 mi² (20.0 km²).

PERIOD OF RECORD.--Chemical analyses: January 1972 to September 1975.
Sediment analyses: April 1974 to September 1975.

EXTREMES.--1974-75:
Sediment concentrations: Maximum daily, 62 mg/l May 23; minimum daily, 1 mg/l on many days throughout the year.
Sediment discharge: Maximum daily, 5.2 tons May 23; minimum daily, 0.02 tons on many days throughout the year.
Period of record:
Sediment concentrations: Maximum daily, 78 mg/l Aug. 22, 1974; minimum daily, 1 mg/l on many days during the 1975 water year.
Sediment discharge: Maximum daily, 5.2 tons May 23, 1975; minimum daily, 0.02 tons on many days during the 1975 water year.

REMARKS.--Miscellaneous storm sediment samples collected during water years 1972-74.

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	AIR TEMPERATURE (DEG C)	TEMPERATURE (DEG C)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	DISSOLVED OXYGEN (MG/L)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L)	CHEMICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	IMMEDIATE COLIFORM (COL. PER 100 ML)	FECAL COLIFORM (EC BROTH) (MPN)
OCT.											
30...	1120	6.0	--	14.2	60	5.9	10.0	1.4	12	1600	--
NOV.											
27...	1250	7.4	--	5.6	57	5.7	12.4	.2	--	1350	--
JAN.											
02...	1020	10	--	5.7	62	3.7	11.5	.5	--	36	--
17...	1040	11	--	3.0	104	4.7	11.6	4.0	--	820	--
FEB.											
25...	1100	E19	0.2	7.0	93	4.6	--	.7	41	1420	--
MAR.											
25...	1300	32	--	11.0	68	4.7	9.1	1.	37	--	540
APR.											
10...	1130	11	15.6	9.1	58	5.5	10.0	5.4	16	--	<2
MAY											
14...	1300	14	--	17.6	58	5.5	9.9	2.0	29	--	69
JUNE											
10...	1400	9.6	--	16.0	62	4.9	9.3	2.0	23	--	33
JULY											
17...	1145	34	--	22.0	48	4.6	5.0	1.9	79	--	350
AUG.											
13...	1000	9.5	--	18.7	64	5.0	8.6	2.2	20	--	240
SEP.											
11...	1005	6.8	--	11.5	58	4.7	10.0	.1	7	--	--

DATE	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)	TOTAL ORGANIC NITROGEN (N) (MG/L)	DISSOLVED ORGANIC NITROGEN (N) (MG/L)	AMMONIA NITROGEN (N) (MG/L)	DISSOLVED AMMONIA NITROGEN (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	DISSOLVED NITRITE (N) (MG/L)	TOTAL NITRATE (N) (MG/L)	DISSOLVED NITRATE (N) (MG/L)
OCT.										
30...	70	100	.11	--	.15	--	.00	--	1.5	--
NOV.										
27...	10	320	.16	--	.12	--	.01	--	1.6	--
JAN.										
02...	20	100	1.1	--	.05	--	.00	--	1.1	--
17...	6	36	.21	--	.00	--	.01	--	1.1	--
FEB.										
25...	94	222	.32	--	.16	--	.01	--	.56	--
MAR.										
25...	76	240	.21	.00	.11	.11	.02	.02	.40	.40
APR.										
10...	<5	<10	.07	--	.02	--	.00	--	1.4	--
MAY										
14...	60	24	.75	.75	.01	.01	.01	.01	.99	.99
JUNE										
10...	--	390	.49	--	.04	--	.01	--	1.3	--
JULY										
17...	220	1100	.67	--	.10	--	.01	--	.29	--
AUG.										
13...	42	320	.44	--	.01	--	.01	--	1.4	--
SEP.										
11...	60	200	.16	--	.01	--	.01	--	1.0	--

01410810 FOURMILE BRANCH AT NEW BROOKLYN, N. J.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	DIS-SOLVED KJEL. NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOL-VED PHOS-PHORUS (P) (MG/L)	TOTAL ORTHO PHOS-PHORUS (P) (MG/L)	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)	DIS-SOLVED ORTHO PHOS-PHATE (PO4) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)	DIS-SOLVED ORGANIC CARBON (C) (MG/L)
OCT.										
30...	.25	--	1.8	.10	--	.10	--	--	5.7	--
NOV.										
27...	.28	--	1.9	.05	--	.05	--	--	4.4	--
JAN.										
02...	1.1	--	2.2	.06	--	.07	--	--	--	--
17...	.29	--	1.4	.06	--	.06	--	--	7.6	--
FEB.										
25...	.48	--	1.1	.06	--	.02	--	--	19	--
MAR.										
25...	.32	.11	.82	.15	.11	.11	.08	.25	13	12
APR.										
10...	.89	--	1.5	.05	--	.03	--	--	4.9	--
MAY										
14...	.76	.76	1.7	.10	.05	.04	.03	.09	12	10
JUNE										
10...	.53	--	1.8	.09	--	.07	--	--	9.7	9.1
JULY										
17...	.85	--	1.2	.09	--	.06	--	--	28	27
AUG.										
13...	.45	--	1.9	.08	--	.08	--	--	10	10
SEP.										
11...	.17	--	2.8	.13	--	.09	--	--	5.8	5.8

DATE	COD IN BOTTOM MA-TERIAL (MG/KG)	TOTAL AMMONIA NITRO-GEN IN BOTTOM MAT. (MG/KG)	TOTAL NITRITE PLUS NITRATE IN BOT. MAT. (MG/KG)	TOTAL KJEL. NITRO-GEN IN BOTTOM MAT. (MG/KG)	TOTAL NITRO-GEN IN BOTTOM MATERI-AL (N) (MG/KG)	TOTAL PHOS-PHORUS IN BOT-TOM MA-TERIAL (MG/KG)	ORGANIC CARBON IN BOT-TOM MA-TERIAL (C) (G/KG)	IN-ORGANIC CARBON IN BOT-TOM MA-TERIAL (G/KG)	TOTAL IRON IN BOTTOM MA-TERIAL (UG/G)	TOTAL MANGA-NESE IN BOTTOM MA-TERIAL (UG/G)
APR.										
10...	6200	2.3	.9	77	78	26	1.2	2.3	690	1

DATE	TOTAL ARSENIC IN BOTTOM MA-TERIAL (UG/G)	TOTAL CADMIUM IN BOTTOM MA-TERIAL (UG/G)	TOTAL CHRO-MIUM IN BOTTOM MA-TERIAL (UG/G)	TOTAL COBALT IN BOTTOM MA-TERIAL (UG/G)	TOTAL COPPER IN BOTTOM MA-TERIAL (UG/G)	TOTAL LEAD IN BOTTOM MA-TERIAL (UG/G)	TOTAL MERCURY IN BOTTOM MA-TERIAL (UG/G)	TOTAL NICKEL IN BOTTOM MA-TERIAL (UG/G)	TOTAL ZINC IN BOTTOM MA-TERIAL (UG/G)
APR.									
10...	1	0	1	0	0	1	.0	1	1

PESTICIDE ANALYSES, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	ALDRIN IN BOTTOM MA-TERIAL (UG/KG)	LINDANE IN BOTTOM MA-TERIAL (UG/KG)	CHLOR-DANE IN BOTTOM MA-TERIAL (UG/KG)	DDD IN BOTTOM MA-TERIAL (UG/KG)	DDE IN BOTTOM MA-TERIAL (UG/KG)	DDT IN BOTTOM MA-TERIAL (UG/KG)	DI-ELDRIN IN BOTTOM MA-TERIAL (UG/KG)	ENDRIN IN BOTTOM MA-TERIAL (UG/KG)	TOX-APHENE IN BOTTOM MA-TERIAL (UG/KG)	HEPTA-CHLOR IN BOTTOM MA-TERIAL (UG/KG)	HEPTA-CHLOR EPOXIDE IN BOT-TOM MA-TERIAL (UG/KG)	PCB IN BOTTOM MA-TERIAL (UG/KG)
APR.												
10...	.0	.0	0	.4	.1	.0	.0	.0	0	.0	.0	0

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

PERIPHYTON

DATE	EXPOSURE LENGTH (DAYS)	BIOMASS DRY WEIGHT (G/SQ M)	BIOMASS ASH WEIGHT (G/SQ M)	CHLORO-PHYLL A (MG/SQ M)	CHLORO-PHYLL B (MG/SQ M)	BIOMASS PIGMENT RATIO	SAMPLING METHOD
APR. 29...	33	2.0	1.5	4.2	0.8	130	POLY-ETHYLENE STRIP

BENTHIC INVERTEBRATES

DATE AND TIME	EXPOSURE LENGTH (DAYS)	ORGANISM	ORGANISM COUNT (NO/SQ M)	DI-VERSITY INDEX	BIOMASS WET WEIGHT (G/SQ M)	SAMPLING METHOD
APR. 29... AT 1030	33	ARTHROPODA		0.0	5	MULTIPLATE ARTIFICIAL SUBSTRATE
		CRUSTACEA				
		ISOPODA	15			
		CYCLOPOIDA	1			
		INSECTA				
		DIPTERA				
		CHIRONOMIDAE	132			
		TRICHOPTERA	10			
		EPHEMEROPTERA	2			
		MEGALOPTERA	1			
		COLLEMBOLA	1			
		TOTAL =	162			

*** DIVERSITY INDICES ***

LEVEL	TAXA	COUNT	DIVERSITY	REDUNDANCY
INSECTA,				
GENERA :		(NOT CALCULABLE)		
FAMILY :	7	162	1.02	0.69
ORDER :	2	162	0.47	0.55

APR. 10, 1975
1130 HOURS

IDENTIFICATION OF PHYTOPLANKTON

430 CELLS/ML

	_ORGANISM__NAME	_COMMON__NAME	CELLS/ML	PER_CENT
	CHRYSOPHYTA			
	.BACILLARIOPHYCEAE	DIATOMS		
	..PENNALES	PENNATE		
	...ACHNANTHACEAE			
	....ACHNANTHES			
	...EUNOTIACEAE		18	4
D	....EUNOTIA			
	...FRAGILARIACEAE		110	25
D	....FRAGILARIA			
	...NAVICULACEAE		140	33
D	....NAVICULA	NAVICULOID		
	....STAURONEIS		89	21
	...NITZSCHIACEAE		18	4
	....HANTZSCHIA			
	....NITZSCHIA		18	4
	...SURIRELLACEAE		18	4
	....CYMATOPLEURA			
			18	4

NOTE: D - DOMINANT ORGANISM: GREATER OR EQUAL TO 15%
ANALYSIS METHOD: SEDGWICK-RAFTER CHAMBER , 200-X MICROSCOPE
DIVERSITY INDICES, BASED ON ACTUAL COUNTS:
FAMILY 2.209
GENERA 2.455

01410810 FOURMILE BRANCH AT NEW BROOKLYN, N. J.--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

	OCTOBER			NOVEMBER			DECEMBER		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	6.3	33	.56	6.8	2	.04	7.1	22	.42
2	6.2	33	.55	6.8	2	.04	19	42	2.2
3	5.9	32	.51	6.8	2	.04	16	28	1.2
4	5.9	25	.40	6.8	3	.06	11	17	.50
5	5.8	16	.25	7.0	1	.02	9.0	10	.24
6	5.7	13	.20	10	7	.19	8.3	9	.20
7	5.7	13	.20	8.9	7	.17	7.9	8	.17
8	5.5	12	.18	7.9	3	.06	18	23	1.1
9	5.4	10	.15	7.5	3	.06	29	16	1.3
10	5.4	7	.10	7.2	2	.04	17	8	.37
11	5.4	6	.09	7.0	2	.04	11	4	.12
12	5.5	6	.09	7.3	3	.06	9.5	3	.08
13	5.5	6	.09	12	10	.32	9.6	4	.10
14	5.7	7	.11	10	7	.19	11	4	.12
15	5.7	7	.11	8.7	6	.14	9.5	5	.13
16	16	20	.86	7.9	3	.06	22	40	2.4
17	25	12	.81	7.5	2	.04	45	15	1.8
18	15	4	.16	7.2	2	.04	38	9	.92
19	9.3	4	.10	7.2	1	.02	19	6	.31
20	8.3	6	.13	7.2	1	.02	14	6	.23
21	7.6	6	.12	7.7	1	.02	12	6	.19
22	7.6	6	.12	7.3	1	.02	11	7	.21
23	7.3	7	.14	7.1	1	.02	10	5	.14
24	7.1	7	.13	7.0	1	.02	9.5	9	.23
25	7.1	5	.10	7.0	1	.02	9.3	8	.20
26	7.0	3	.06	7.1	1	.02	9.2	8	.20
27	6.8	3	.06	7.0	1	.02	8.9	5	.12
28	6.8	3	.06	6.8	3	.06	8.6	6	.14
29	6.8	5	.09	6.7	5	.09	8.3	4	.09
30	6.8	6	.11	6.6	13	.23	8.2	3	.07
31	6.8	3	.06	---	---	---	8.0	4	.09
MONTH	236.9	---	6.78	228.0	---	2.17	433.9	---	15.59

	JANUARY			FEBRUARY			MARCH		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	10	6	.16	9.6	4	.10	12	6	.19
2	11	4	.12	9.5	4	.10	11	5	.15
3	9.3	3	.08	9.2	3	.07	10	4	.11
4	8.7	3	.07	8.9	2	.05	9.2	4	.10
5	8.3	4	.09	10	2	.05	8.8	4	.10
6	8.0	7	.15	11	7	.21	8.6	5	.12
7	13	17	.60	12	4	.13	8.4	5	.11
8	12	9	.29	12	2	.06	8.2	4	.09
9	21	34	1.9	11	3	.09	8.2	4	.09
10	23	9	.56	11	3	.09	8.1	2	.04
11	16	10	.43	10	4	.11	8.3	4	.09
12	16	11	.48	9.6	2	.05	9.4	7	.18
13	19	15	.77	9.2	3	.07	11	9	.27
14	31	5	.42	8.8	2	.05	13	11	.39
15	20	3	.16	8.6	4	.09	15	7	.28
16	13	2	.07	8.8	7	.17	15	7	.28
17	11	2	.06	9.0	10	.24	13	8	.28
18	13	2	.07	9.8	11	.29	11	3	.09
19	25	8	.54	11	7	.21	20	5	.27
20	25	11	.74	11	4	.12	48	18	2.3
21	20	4	.22	10	2	.05	43	15	1.7
22	15	2	.08	9.5	1	.03	26	9	.63
23	13	3	.11	12	7	.23	20	8	.43
24	13	6	.21	16	9	.39	20	11	.59
25	18	9	.44	19	8	.41	31	9	.75
26	27	4	.29	18	7	.34	26	6	.42
27	20	3	.16	16	5	.22	17	5	.23
28	14	3	.11	14	7	.26	15	5	.20
29	12	4	.13	---	---	---	14	4	.15
30	10	3	.08	---	---	---	16	2	.09
31	10	3	.08	---	---	---	19	3	.15
MONTH	485.3	---	9.67	314.5	---	4.28	503.2	---	10.87

01410810 FOURMILE BRANCH AT NEW BROOKLYN, N. J.--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

	APRIL			MAY			JUNE		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	15	2	.08	14	8	.30	10	6	.16
2	13	3	.11	14	6	.23	13	14	.49
3	15	13	.53	15	8	.32	9.8	8	.21
4	20	8	.43	19	13	.67	8.9	7	.17
5	16	6	.26	29	14	1.1	9.2	6	.15
6	14	5	.19	22	8	.48	30	23	1.9
7	13	3	.11	18	7	.34	33	19	1.7
8	12	3	.10	16	6	.26	17	12	.55
9	12	2	.06	14	5	.19	12	10	.32
10	11	4	.12	14	6	.23	9.6	7	.18
11	11	5	.15	12	7	.23	8.9	8	.19
12	11	4	.12	10	9	.24	15	9	.36
13	11	4	.12	14	7	.26	26	12	.84
14	10	5	.14	14	7	.26	18	12	.58
15	11	6	.18	12	8	.26	11	11	.33
16	16	8	.35	21	7	.40	9.8	8	.21
17	15	8	.32	26	7	.49	9.0	7	.17
18	13	7	.25	17	8	.37	8.6	6	.14
19	12	8	.26	14	7	.26	8.2	6	.13
20	12	9	.29	12	8	.26	8.7	5	.12
21	11	8	.24	10	7	.19	7.9	5	.11
22	10	7	.19	30	15	1.2	7.6	5	.10
23	10	9	.24	31	62	5.2	7.3	4	.08
24	10	11	.30	21	16	.91	7.2	5	.10
25	18	13	.63	17	9	.41	8.3	7	.16
26	40	9	.97	14	11	.42	7.9	5	.11
27	41	8	.89	12	8	.26	8.2	4	.09
28	23	9	.56	10	6	.16	7.7	3	.06
29	17	8	.37	9.3	6	.15	7.6	2	.04
30	15	8	.32	9.0	7	.17	7.3	2	.04
31	---	---	---	10	7	.19	---	---	---
MONTH	458	---	8.88	500.3	---	16.41	352.7	---	9.79

	JULY			AUGUST			SEPTEMBER		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	7.0	2	.04	5.8	7	.11	7.5	5	.10
2	6.6	3	.05	5.8	8	.13	7.7	7	.15
3	6.8	3	.06	6.0	8	.13	7.5	8	.16
4	7.2	1	.02	6.7	10	.18	7.2	10	.19
5	6.6	2	.04	9.0	10	.24	7.2	9	.18
6	6.4	3	.05	10	11	.30	8.4	9	.20
7	6.8	2	.04	24	15	.97	8.3	7	.16
8	7.5	3	.06	15	9	.36	7.9	6	.13
9	6.8	4	.07	11	7	.21	7.6	3	.06
10	6.7	4	.07	6.0	6	.10	7.0	2	.04
11	8.3	3	.07	9.3	4	.10	7.0	2	.04
12	7.7	4	.08	11	2	.06	7.6	3	.06
13	24	17	1.1	9.3	1	.03	12	4	.13
14	62	10	1.7	10	1	.03	8.7	7	.16
15	67	15	2.7	9.2	1	.02	7.9	5	.11
16	59	13	2.1	28	9	.68	7.6	4	.08
17	34	11	1.0	49	9	1.2	7.6	2	.04
18	19	11	.56	34	5	.46	7.5	2	.04
19	15	9	.36	16	3	.13	7.9	1	.02
20	13	8	.28	12	2	.06	8.0	1	.02
21	24	14	.91	10	2	.05	7.9	3	.06
22	22	14	.83	10	1	.03	7.7	4	.08
23	13	9	.32	10	3	.08	12	6	.19
24	10	10	.27	9.8	1	.03	42	8	.91
25	9.5	9	.23	9.3	6	.15	74	7	1.4
26	10	8	.22	8.6	8	.19	61	5	.82
27	9.0	7	.17	8.0	7	.15	53	8	1.1
28	7.9	7	.15	7.7	9	.19	42	7	.79
29	7.0	8	.15	7.6	13	.27	26	3	.21
30	6.4	8	.14	7.7	12	.25	18	2	.10
31	6.2	7	.12	7.6	---	---	---	---	---
MONTH	502.4	---	13.96	383.6	---	6.89	501.7	---	7.73
YEAR	4980.3		112.94						

01410820 GREAT EGG HARBOR RIVER NEAR BLUE ANCHOR, N. J.

LOCATION.--Lat 39°40'09", long 74°54'49", Camden County, at gaging station at bridge on Broad Lane Road, 2.1 mi (3.4 km) downstream from confluence of Fourmile Branch and 1.9 mi (3.0 km) southwest of Blue Anchor.

DRAINAGE AREA.--37.3 mi² (96.6 km²).

PERIOD OF RECORD.--Chemical analyses: February 1972 to September 1975.

REMARKS.--Miscellaneous storm sediment samples collected during water years 1972-75.

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	AIR TEMPERATURE (DEG C)	TEMPERATURE (DEG C)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	DISSOLVED OXYGEN (MG/L)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L)	CHEMICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	IMMEDIATE COLIFORM (COL. PER 100 ML)	FECAL COLIFORM (EC BROTH) (MPN)
OCT.											
30...	1030	E32	--	1.3	68	6.2	8.0	1.1	15	440	--
NOV.											
27...	1330	39	--	4.4	66	6.6	11.8	.4	--	500	--
JAN.											
02...	1055	55	--	5.4	68	3.4	11.6	.7	--	80	--
17...	1150	75	--	1.5	90	4.8	12.0	5.0	--	396	--
FEB.											
25...	1000	105	7.0	8.2	81	4.2	8.5	1.3	38	1020	--
MAR.											
26...	0945	E123	--	8.0	63	4.3	7.9	.9	34	--	49
APR.											
10...	1030	55	22.0	7.0	60	5.8	10.2	2.6	20	--	8
MAY											
14...	1450	64	--	16.8	62	5.7	7.6	.2	35	--	79
JUNE											
11...	0900	56	--	14.5	63	6.2	7.4	3.4	30	--	140
JULY											
17...	1330	312	--	22.5	50	4.3	4.0	2.0	91	--	170
AUG.											
13...	1110	55	--	19.0	71	6.0	6.5	--	30	--	>2400
SEP.											
11...	0830	36	--	13.3	73	5.4	8.0	.3	19	--	--

DATE	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)	TOTAL ORGANIC NITROGEN (N) (MG/L)	DISSOLVED ORGANIC NITROGEN (N) (MG/L)	AMMONIA NITROGEN (N) (MG/L)	DISSOLVED AMMONIA NITROGEN (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	DISSOLVED NITRITE (N) (MG/L)	TOTAL NITRATE (N) (MG/L)	DISSOLVED NITRATE (N) (MG/L)
OCT.										
30...	20	150	.00	--	.20	--	.00	--	1.2	--
NOV.										
27...	30	105	.05	--	.21	--	.01	--	1.2	--
JAN.										
02...	16	140	.10	--	.22	--	.01	--	.90	--
17...	0	10	.27	--	.19	--	.01	--	.60	--
FEB.										
25...	42	310	.10	--	.32	--	.01	--	.42	--
MAR.										
26...	--	80	.27	.23	.13	.13	.01	.01	.45	.45
APR.										
10...	16	16	.00	--	.05	--	.00	--	.99	--
MAY										
14...	60	112	.60	.60	.10	.10	.03	.03	.97	.97
JUNE										
11...	--	772	.46	--	.09	--	.02	--	.92	--
JULY										
17...	92	235	.95	--	.19	--	.01	--	.07	--
AUG.										
13...	300	324	.58	--	.00	--	.01	--	.86	--
SEP.										
11...	92	220	.23	--	.01	--	.01	--	1.3	--

GREAT EGG HARBOR RIVER BASIN

01410820 GREAT EGG HARBOR RIVER NEAR BLUE ANCHOR, N. J.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	DIS-SOLVED KJEL. NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOL-VED-PHOS-PHORUS (P) (MG/L)	TOTAL ORTHO PHOS-PHORUS (P) (MG/L)	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)	DIS-SOLVED ORTHO PHOS-PHATE (PO4) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)	DIS-SOL-VED ORGANIC CARBON (C) (MG/L)
OCT. 30...	.20	--	1.4	.22	--	.19	--	--	11	--
NOV. 27...	.26	--	1.5	.20	--	.17	--	--	4.7	--
JAN. 02...	.32	--	1.2	.15	--	.11	--	--	--	--
17...	.46	--	1.2	.10	--	.07	--	--	13	--
FEB. 25...	.42	--	.85	.11	--	.09	--	--	10	--
MAR. 26...	.40	.36	.86	.12	.11	.10	.07	.21	16	14
APR. 10...	.13	--	1.1	.10	--	.06	--	--	--	9.2
MAY 14...	.78	.70	1.0	.31	.24	.20	.10	.55	15	14
JUNE 11...	.55	--	1.5	.10	--	.11	--	--	13	13
JULY 17...	1.1	--	1.2	.11	--	.06	--	--	22	--
AUG. 13...	.58	--	1.5	.14	--	.14	--	--	16	15
SEP. 11...	.24	--	1.5	.20	--	.14	--	--	8.1	6.6

DATE	COD IN BOTTOM MA-TERIAL (MG/KG)	TOTAL AMMONIA NITRO-GEN IN BOTTOM MAT. (MG/KG)	TOTAL NITRITE PLUS NITRATE IN BOT. MAT. (MG/KG)	TOTAL KJEL. NITRO-GEN IN BOTTOM MAT. (MG/KG)	TOTAL NITRO-GEN IN BOTTOM MATERI-AL (N) (MG/KG)	TOTAL PHOS-PHORUS IN BOT-TOM MA-TERIAL (MG/KG)	ORGANIC CARBON IN BOT-TOM MA-TERIAL (C) (G/KG)	IN-ORGANIC CARBON IN BOT-TOM MA-TERIAL (G/KG)	TOTAL IRON IN BOTTOM MA-TERIAL (UG/G)	TOTAL MANGA-NESE IN BOTTOM MA-TERIAL (UG/G)
APR. 10...	9800	5.3	1.3	149	150	17	1.0	2.2	190	0

DATE	TOTAL ARSENIC IN BOTTOM MA-TERIAL (UG/G)	TOTAL CADMIUM IN BOTTOM MA-TERIAL (UG/G)	TOTAL CHRO-MIUM IN BOTTOM MA-TERIAL (UG/G)	TOTAL COBALT IN BOTTOM MA-TERIAL (UG/G)	TOTAL COPPER IN BOTTOM MA-TERIAL (UG/G)	TOTAL LEAD IN BOTTOM MA-TERIAL (UG/G)	TOTAL MERCURY IN BOTTOM MA-TERIAL (UG/G)	TOTAL NICKEL IN BOTTOM MA-TERIAL (UG/G)	TOTAL ZINC IN BOTTOM MA-TERIAL (UG/G)
APR. 10...	0	0	1	0	0	2	.0	1	1

PESTICIDE ANALYSES, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	ALDRIN IN BOTTOM MA-TERIAL (UG/KG)	LINDANE IN BOTTOM MA-TERIAL (UG/KG)	CHLOR-DANE IN BOTTOM MA-TERIAL (UG/KG)	DDD IN BOTTOM MA-TERIAL (UG/KG)	DDE IN BOTTOM MA-TERIAL (UG/KG)	DDT IN BOTTOM MA-TERIAL (UG/KG)	DI-ELDRIN IN BOTTOM MA-TERIAL (UG/KG)	ENDRIN IN BOTTOM MA-TERIAL (UG/KG)	TOX-APHENE IN BOTTOM MA-TERIAL (UG/KG)	HEPTA-CHLOR IN BOTTOM MA-TERIAL (UG/KG)	HEPTA-CHLOR EPOXIDE IN BOT-TOM MA-TERIAL (UG/KG)	PCB IN BOTTOM MA-TERIAL (UG/KG)
APR. 10...	.0	.0	0	.0	.0	.0	.0	.0	0	.0	.0	0

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

PERIPHYTON

DATE	EXPOSURE LENGTH (DAYS)	BIOMASS DRY WEIGHT (G/SQ M)	BIOMASS ASH WEIGHT (G/SQ M)	CHLORO-PHYLL A (MG/SQ M)	CHLORO-PHYLL B (MG/SQ M)	BIOMASS PIGMENT RATIO	SAMPLING METHOD
APR. 29...	33	2.1	0.5	2.2	0.5	710	POLY-ETHYLENE STRIP

BENTHIC INVERTEBRATES

DATE AND TIME	EXPOSURE LENGTH (DAYS)	ORGANISM	ORGANISM COUNT (NO/SQ M)	DI-VERSITY INDEX	BIOMASS WET WEIGHT (G/SQ M)	SAMPLING METHOD
APR. 29... AT 1200	33	NEMATODA	3	0.0	10	MULTIPLATE ARTIFICIAL SUBSTRATE
		ANNELIDA				
		OLIGOCHAETA	1			
		ARTHROPODA				
		INSECTA				
		DIPTERA				
		CERATOPOGONIDAE	1			
		CHIRONOMIDAE	248			
		TRICHOPTERA	6			
		PLECOPTERA	68			
		MEGALOPTERA	4			
		COLLEMBOLA	1			
		ARACHNOIDEA	1			
		TOTAL =	325			

*** DIVERSITY INDICES ***

LEVEL	TAXA	COUNT	DIVERSITY	REDUNDANCY
INSECTA,				
GENERA :	(NOT CALCULABLE)			
FAMILY :	2	249	0.04	0.99
ORDER :	5	320	0.95	0.61
CLASS :	3	322	0.06	0.99
PHYLUM :	3	325	0.11	0.96

APR. 10, 1975
1030 HOURS

IDENTIFICATION OF PHYTOPLANKTON

240 CELLS/ML

	_ORGANISM__NAME_	_COMMON__NAME_	CELLS/ML	PER_CENT
	CHLOROPHYTA	GREEN ALGAE		
	.CHLOROPHYCEAE			
	..OEDOGONIALES			
	...OEDOGONIACEAE			
	....OEDOGONIUM		19	8
	CHRYSOPHYTA			
	.BACILLARIOPHYCEAE	DIATOMS		
	..PENNALES	PENNATE		
	...EUNOTIACEAE			
D	....EUNOTIA		96	40
	...FRAGILARIACEAE			
	....HANNAEA		19	8
D	....SYNEDRA		38	16
	...GOMPHONEMATACEAE			
	....GOMPHONEMA		10	4
	...NAVICULACEAE	NAVICULOID		
	....NAVICULA		29	12
	....PINNULARIA		10	4
	...NITZSCHIACEAE			
	....NITZSCHIA		10	4
	...TABELLARIACEAE			
	....TABELLARIA		10	4

NOTE: D - DOMINANT ORGANISM: GREATER OR EQUAL TO 15%
ANALYSIS METHOD: SEDGWICK-RAFTER CHAMBER , 200-X MICROSCOPE
DIVERSITY INDICES, BASED ON ACTUAL COUNTS:
PHYL/DIV 0.402
CLASS 0.402
ORDER 0.402
FAMILY 2.295
GENERA 2.645

01410820 GREAT EGG HARBOR RIVER NEAR BLUE ANCHOR, N. J.--Continued

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	TEMPER-ATURE (DEG C)	INSTAN-TANEOUS DIS-CHARGE (CFS)	SUS-PENDED SEDI-MENT (MG/L)	SUS-PENDED SEDI-MENT DIS-CHARGE (T/DAY)
OCT.					
03...	1100	10.2	30	5	.40
16...	1430	--	63	15	2.6
16...	1600	--	66	57	10
17...	0910	--	87	6	1.4
NOV.					
20...	1405	11.2	29	25	2.0
DEC.					
02...	1130	--	59	13	2.1
02...	1445	--	59	20	3.2
08...	1325	10.2	62	7	1.2
08...	1455	10.1	67	7	1.3
JAN.					
09...	1100	7.0	42	16	1.8
09...	1255	8.0	40	17	1.8
09...	1445	8.2	37	16	1.6
FEB.					
14...	1100	2.3	54	2	.29
MAR.					
18...	1050	--	67	7	1.3
19...	1530	7.0	70	10	1.9
19...	1825	--	84	14	3.2
20...	0945	--	204	63	35
APR.					
03...	1025	--	69	24	4.5
03...	1425	--	73	9	1.8
17...	0935	9.7	65	2	.35
MAY					
30...	1410	17.6	47	4	.51
JUNE					
11...	0900	14.5	54	4	.58
12...	1140	15.9	24	5	.32
12...	1230	16.0	59	6	.96
12...	1430	15.8	64	6	1.0
12...	1505	15.9	65	6	1.1
JULY					
13...	1350	--	68	21	3.9
13...	1550	--	78	27	5.7
14...	1120	--	241	16	10
14...	1345	--	277	9	6.7
14...	1525	--	299	11	8.9
14...	1710	--	317	6	5.1
SEP.					
25...	1145	--	440	1	1.2
25...	1255	--	450	1	1.2
25...	1425	--	470	1	1.3

01410865 SQUANKUM BRANCH AT MALAGA ROAD NEAR WILLIAMSTOWN, N. J.

LOCATION.--Lat 39°40'04", long 74°57'39", Gloucester County, at bridge on Malaga Road, 1.0 mi (1.6 km) upstream from Hedges Branch, and 2.0 mi (3.2 km) southeast of intersection of U.S. Route 322 with New Brooklyn Road in Williamstown.

DRAINAGE AREA.--3.02 mi² (7.82 km²).

PERIOD OF RECORD.--Chemical analyses: August to September 1974, June to September 1975.

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	TEMPERATURE (DEG C)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	DISSOLVED OXYGEN (MG/L)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L)	FECAL COLIFORM (EC BROTH) (MPN)	FECAL COLIFORM (COL. PER 100 ML)	TURBIDITY (JTU)	COLOR (PLATINUM-COBALT UNITS)	TOTAL ORGANIC NITROGEN (N) (MG/L)
JUNE 25...	1110	29.0	242	6.7	5.8	16	27	90	5	10	1.5
JULY 15...	1040	28.7	--	5.7	3.9	6.3	>2400	7800	27	60	.82
AUG. 12...	0810	17.5	180	6.5	2.6	8.8	>2400	1100	7	22	1.6
SEP. 10...	1445	18.0	432	7.0	.8	16	--	1340	5	12	4.0

DATE	AMMONIA NITROGEN (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL ORTHO PHOSPHORUS (P) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)	ALKALINITY AS CACO3 (MG/L)	CARBONATE (CO3) (MG/L)	BICARBONATE (HCO3) (MG/L)
JUNE 25...	6.8	.10	2.1	8.3	11	2.9	2.6	22	58	0	71
JULY 15...	.78	.02	2.5	1.6	4.1	.45	.33	24	11	0	13
AUG. 12...	1.8	.01	.02	3.4	3.4	1.1	.82	17	48	--	58
SEP. 10...	14	.09	.14	18	18	4.2	3.7	24	129	0	157

DATE	CARBON DIOXIDE (CO2) (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	TOTAL NONFILTRABLE RESIDUE (MG/L)
JUNE 25...	23	35	0	7.9	3.8	26	4.9	22	16	122	14
JULY 15...	--	34	--	8.0	3.5	3.4	1.8	5.3	12	121	22
AUG. 12...	29	33	0	7.3	3.5	17	6.3	12	11	135	11
SEP. 10...	25	39	0	8.8	4.1	39	11	29	17	179	6

01411000 GREAT EGG HARBOR RIVER AT FOLSOM, N. J.

LOCATION.--Lat 39°35'42", long 74°51'06", Atlantic County, water-quality recorder at gaging station on N.J. Route 54 bridge, 1.0 mi (1.6 km) south of Folsom.

DRAINAGE AREA.--56.3 mi² (146 km²).

PERIOD OF RECORD.--Chemical analyses: Water years 1962-68 (partial-record station), December 1968 to September 1975.
Water temperatures: October 1960 to April 1975.
Sediment records: December 1965 to September 1970.

EXTREMES.--Octobe 74-April 1975:
Specific condu ance: Maximum, 110 micromhos Oct. 14, 15; minimum, 60 micromhos Dec. 17.
Water temperatures: Minimum freezing point on several days during winter months.
Period of record:
Specific conductance: (1969-75) Maximum, 130 micromhos Oct. 31, 1973; minimum, 41 micromhos July 14, 1972.
Water temperatures: Maximum, 24.0°C July 23-24, 1972; minimum, freezing point on many days during winter months.

REMARKS.--Miscellaneous storm sediment samples collected during water years 1971-75. Missing continuous water-quality records are the result of malfunction of sensor or sampling mechanism. Water-quality recorder removed April 3, 1975.

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	AIR TEMPERATURE (DEG C)	TEMPERATURE (DEG C)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TOTAL ACIDITY AS H+ (MG/L)	DISSOLVED OXYGEN (MG/L)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L)	CHEMICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)
OCT.										
14...	0950	48	—	14.2	85	5.8	—	8.8	2.2	—
30...	1000	51	—	12.5	86	5.9	—	8.4	.9	—
NOV.										
20...	1340	54	—	9.5	86	5.3	—	9.6	.7	—
FEB.										
25...	0915	144	7.0	9.0	85	4.5	—	9.2	1.7	20
MAR.										
12...	1440	76	—	5.4	91	5.1	—	10.8	1.4	—
APR.										
10...	1100	96	—	10.3	81	6.9	—	9.2	2.9	—
MAY										
14...	1645	96	—	18.0	71	4.5	—	8.1	1.1	—
JUNE										
04...	1340	86	—	23.0	90	5.4	—	5.9	1.5	—
JULY										
15...	1230	330	—	20.5	—	4.2	1.0	5.8	1.4	—
AUG.										
12...	1030	81	—	19.5	88	5.6	—	7.4	1.2	—
SEP.										
10...	1320	52	—	15.0	116	6.5	—	8.8	.8	—

DATE	IMMEDIATE COLIFORM (COL. PER 100 ML)	FECAL COLIFORM (EC BROTH) (MPN)	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)	TURBIDITY (JTU)	COLOR (PLATINUM-COBALT UNITS)	TOTAL ORGANIC NITROGEN (N) (MG/L)	AMMONIA NITROGEN (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	TOTAL NITRATE (N) (MG/L)
OCT.										
14...	985	—	234	84	—	—	—	—	—	—
30...	1200	—	8	8	—	—	.20	.13	.00	.87
NOV.										
20...	175	—	0	0	—	—	.07	.18	.00	1.0
FEB.										
25...	1240	—	48	104	—	—	.17	.14	.00	.46
MAR.										
12...	—	23	—	—	8	20	.14	.17	.01	.99
APR.										
10...	—	79	100	—	6	33	.28	.10	.01	.69
MAY										
14...	—	>2400	207	—	6	120	.44	.06	.01	.59
JUNE										
04...	—	220	272	—	5	270	.55	.12	.02	.78
JULY										
15...	—	350	800	—	10	160	.84	.01	.01	.84
AUG.										
12...	—	350	132	—	5	110	.54	.09	.01	.70
SEP.										
10...	—	—	0	—	7	1	.37	.09	.01	1.4

01411000 GREAT EGG HARBOR RIVER AT FOLSOM, N. J.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	TOTAL ORTHO PHOS-PHORUS (P) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	CAR-BONATE (CO3) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	TOTAL ACIDITY AS CACO3 (MG/L)
OCT.										
16...	--	--	--	--	--	--	--	--	--	--
30...	.33	1.2	.26	.08	8.7	--	--	--	--	--
NOV.										
20...	.25	1.3	.12	.03	8.6	--	--	--	--	--
FEB.										
25...	.31	.77	.09	.05	11	--	--	--	--	--
MAR.										
12...	.31	1.3	.13	.11	24	--	0	2	--	--
APR.										
18...	.38	1.1	.12	.04	17	1	0	1	.2	--
MAY										
14...	.50	1.1	.23	.17	16	--	0	--	--	--
JUNE										
04...	.67	1.5	.37	.08	12	2	0	3	19	--
JULY										
15...	.85	.90	.17	.11	19	0	0	0	.0	58
AUG.										
12...	.63	1.3	.16	.13	15	2	--	2	8.0	--
SEP.										
10...	.46	1.9	.06	.01	5.5	2	0	3	1.5	--

DATE	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	TOTAL NON-FILT-RABLE RESIDUE (MG/L)
OCT.										
16...	--	--	--	--	--	--	--	--	--	--
30...	--	--	--	--	--	--	--	--	--	--
NOV.										
20...	--	--	--	--	--	--	--	--	--	--
FEB.										
25...	--	--	--	--	--	--	--	--	--	--
MAR.										
12...	8	6	1.5	1.0	7.0	1.4	9.3	6.3	66	17
APR.										
18...	15	14	4.3	1.0	7.6	1.8	12	8.0	67	3
MAY										
14...	13	--	2.7	1.4	6.6	1.5	13	7.8	64	15
JUNE										
04...	22	20	5.8	1.9	7.4	1.9	14	9.2	79	19
JULY										
15...	10	10	2.7	.8	3.3	.9	4.8	7.9	67	5
AUG.										
12...	12	10	3.0	1.1	7.6	1.4	12	7.7	93	5
SEP.										
10...	19	16	5.0	1.5	11	1.9	18	9.0	66	17

GREAT EGG HARBOR RIVER BASIN

01411000 GREAT EGG HARBOR RIVER AT FOLSOM, N. J.--Continued

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	TEMPER-ATURE (DEG C)	INSTAN-TANEOUS DIS-CHARGE (CFS)	SUS-PENDED SEDI-MENT (MG/L)	SUS-PENDED SEDI-MENT DIS-CHARGE (T/DAY)
OCT.					
03...	1035	10.9	48	10	1.3
16...	1045	—	47	13	1.6
16...	1445	—	51	15	2.1
17...	0920	—	72	5	.97
17...	1125	12.7	78	8	1.7
DEC.					
02...	1020	—	59	13	2.1
02...	1330	—	61	9	1.5
08...	1300	9.1	75	2	.40
08...	1430	8.8	75	1	.20
JAN.					
09...	1030	6.9	107	5	1.4
09...	1315	8.3	108	4	1.2
09...	1420	7.2	110	6	1.8
FEB.					
14...	0900	.6	88	2	.48
MAR.					
18...	1025	—	126	2	.68
19...	1510	8.6	115	4	1.2
19...	1845	—	126	5	1.7
20...	1400	—	158	47	20
APR.					
03...	1010	—	12	6	.20
03...	1410		127	6	2.0
17...	0910	[illegible]	96	5	1.3
MAY					
30...	1340	18.1	78	20	4.2
JUNE					
12...	1205	16.4	88	7	1.7
12...	1445	16.2	91	10	2.5
JULY					
13...	1420	—	83	26	5.6
13...	1525	—	83	29	6.5
14...	1115	—	103	17	4.7
14...	1410	—	120	19	6.2
14...	1500	—	126	16	4.8
14...	1800	—	136	9	3.3

SPECIFIC CONDUCTANCE (MICROMHOS AT 25°C), WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	101	98	100	100	96	98	93	89	91	86	79	83
2	100	96	98	102	97	99	91	77	86	80	78	79
3	98	95	97	105	101	102	79	76	78	81	79	80
4	99	95	97	102	96	100	79	76	76	82	80	81
5	100	95	97	109	102	105	74	71	72	84	82	83
6	100	96	98	108	99	104	72	70	71	87	83	84
7	101	98	99	101	97	98	72	70	71	87	79	83
8	101	98	100	97	93	95	74	69	71	80	76	78
9	102	100	101	93	90	92	69	67	68	79	73	76
10	102	98	100	93	91	92	73	69	71	74	71	72
11	102	98	100	96	92	93	74	71	73	73	70	72
12	108	101	104	98	95	96	73	71	72	75	72	74
13	109	106	107	96	85	90	73	71	72	78	74	76
14	110	108	109	87	81	83	78	72	75	74	71	72
15	110	108	109	83	80	81	82	79	81	73	71	72
16	109	96	101	81	78	80	81	63	71	77	73	75
17	93	81	86	79	77	78	63	60	61	83	77	81
18	90	86	88	79	76	77	69	61	65	86	78	82
19	92	86	89	81	78	79	74	70	72	82	76	79
20	89	85	87	82	79	80	76	74	75	83	76	80
21	86	82	84	81	77	79	79	76	78	81	75	77
22	86	82	83	83	76	79	80	78	79	86	79	81
23	87	84	86	85	81	83	81	78	80	93	86	90
24	91	88	89	85	81	83	81	79	80	96	88	91
25	93	91	92	89	84	86	82	78	80	93	87	90
26	97	94	95	89	85	87	82	80	81	91	88	89
27	100	95	97	88	85	87	81	80	80	92	88	90
28	99	96	98	90	87	89	82	79	81	91	88	89
29	101	99	100	91	88	89	83	82	83	92	88	90
30	101	99	100	93	91	92	83	80	81	93	89	91
31	101	97	100	---	---	---	86	83	84	91	89	90
MONTH	110	81	96	109	76	89	93	60	76	94	70	82

01411000 GREAT EGG HARBOR RIVER AT FOLSOM, N. J.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS AT 25°C), WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	89	88	89	79	78	78	75	72	73	---	---	---
2	89	87	89	81	79	80	74	73	73	---	---	---
3	90	87	89	83	82	82	76	72	---	---	---	---
4	90	89	90	86	83	83	---	---	---	---	---	---
5	95	76	87	87	85	85	---	---	---	---	---	---
6	88	80	83	88	86	87	---	---	---	---	---	---
7	85	82	83	88	86	87	---	---	---	---	---	---
8	86	82	84	89	86	87	---	---	---	---	---	---
9	86	84	85	86	84	85	---	---	---	---	---	---
10	87	83	85	89	85	86	---	---	---	---	---	---
11	86	83	85	89	86	87	---	---	---	---	---	---
12	88	86	86	87	84	85	---	---	---	---	---	---
13	90	85	86	87	77	81	---	---	---	---	---	---
14	90	85	88	78	76	77	---	---	---	---	---	---
15	98	88	94	77	70	73	---	---	---	---	---	---
16	97	92	94	74	71	72	---	---	---	---	---	---
17	99	93	95	77	74	75	---	---	---	---	---	---
18	98	89	93	78	76	77	---	---	---	---	---	---
19	92	87	89	81	78	79	---	---	---	---	---	---
20	90	84	87	80	68	73	---	---	---	---	---	---
21	87	82	84	69	65	66	---	---	---	---	---	---
22	86	82	84	74	68	71	---	---	---	---	---	---
23	87	85	86	77	73	75	---	---	---	---	---	---
24	85	76	80	80	76	78	---	---	---	---	---	---
25	78	72	75	79	74	76	---	---	---	---	---	---
26	75	72	73	72	72	72	---	---	---	---	---	---
27	76	75	75	74	71	73	---	---	---	---	---	---
28	77	76	77	75	73	74	---	---	---	---	---	---
29	---	---	---	77	74	76	---	---	---	---	---	---
30	---	---	---	80	76	78	---	---	---	---	---	---
31	---	---	---	75	73	74	---	---	---	---	---	---
MONTH	99	72	86	89	65	78	---	---	---	---	---	---

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	15.0	13.5	14.0	14.5	13.0	14.0	7.0	5.0	5.5	6.5	5.0	6.0
2	13.0	11.5	12.0	14.5	13.5	14.5	7.5	7.0	7.5	6.0	4.5	5.0
3	11.5	10.0	10.5	14.5	14.0	14.5	7.0	5.5	6.5	4.0	3.0	3.5
4	10.0	9.0	9.5	15.0	14.0	14.5	5.5	4.0	4.5	5.0	4.0	4.5
5	10.5	9.0	9.5	15.0	14.5	14.5	3.5	2.5	3.0	5.0	4.0	4.5
6	12.0	10.0	11.0	14.5	13.0	14.0	3.5	2.5	3.0	4.5	3.0	4.0
7	13.0	11.5	12.0	13.0	11.5	12.0	6.0	3.0	4.5	5.5	4.5	5.0
8	13.0	12.0	12.5	11.5	10.5	11.0	9.0	6.0	8.0	5.0	3.5	4.5
9	11.5	10.5	11.0	10.5	9.5	10.0	9.0	6.5	8.0	7.0	5.0	6.5
10	11.5	10.0	11.0	9.5	9.0	9.5	6.5	4.0	5.0	7.0	5.5	6.0
11	12.0	11.0	11.5	9.0	8.0	8.5	4.0	3.0	3.5	9.0	6.5	8.0
12	12.5	11.0	12.0	11.0	8.5	9.5	5.0	3.5	4.0	9.0	8.0	8.5
13	13.5	12.5	13.0	11.0	9.5	10.5	5.0	4.0	4.5	8.0	5.5	7.0
14	14.0	13.5	13.5	9.5	8.5	9.0	6.0	5.0	5.5	5.5	2.5	4.0
15	15.0	14.0	14.5	9.0	7.5	8.5	5.5	4.5	5.0	2.5	0.5	1.0
16	15.0	14.0	14.5	7.5	6.0	6.5	8.0	5.0	6.5	1.0	0.5	0.5
17	13.5	12.5	13.0	6.0	5.5	5.5	7.5	4.5	7.0	1.0	0.5	1.0
18	12.5	10.5	11.5	6.0	5.0	5.5	6.5	4.5	5.5	2.0	0.0	1.0
19	10.5	8.0	9.0	7.0	5.5	6.5	4.5	4.0	4.0	4.0	2.0	3.0
20	8.0	6.5	7.0	8.5	7.0	7.5	4.5	3.5	4.0	4.0	1.5	3.0
21	6.5	5.5	6.5	8.5	7.5	8.0	5.0	4.0	4.5	1.0	0.0	0.5
22	7.5	5.5	6.5	8.0	6.5	7.5	5.0	4.5	5.0	1.5	1.0	1.0
23	8.5	6.5	7.5	6.5	5.5	5.5	4.5	3.5	4.0	2.5	1.5	2.0
24	9.5	8.0	8.5	6.5	5.0	5.5	6.0	4.5	5.0	3.0	1.5	2.5
25	10.5	8.5	9.5	8.0	6.5	7.5	7.0	6.0	6.5	5.5	3.0	4.0
26	11.0	10.5	10.5	7.5	5.0	6.5	6.0	4.5	5.5	5.5	4.5	5.0
27	10.5	10.0	10.5	5.0	4.0	4.5	5.0	4.0	4.5	4.5	4.0	4.5
28	10.5	9.5	10.0	4.5	3.5	4.0	5.5	5.0	5.0	4.0	3.5	4.0
29	12.0	10.5	11.0	5.0	4.5	5.0	5.0	4.0	4.5	7.0	4.0	5.5
30	13.0	12.0	12.5	5.0	4.5	4.5	7.0	5.5	6.0	7.0	6.0	6.5
31	14.0	13.0	13.5	---	---	---	6.0	5.0	5.5	6.0	4.0	5.0
MONTH	15.0	5.5	11.0	15.0	3.5	9.0	9.0	2.5	5.0	9.0	0.0	4.0

GREAT EGG HARBOR RIVER BASIN

01411000 GREAT EGG HARBOR RIVER AT FOLSOM, N. J.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	4.0	3.0	3.5	6.5	5.0	5.5	10.5	7.0	8.5	---	---	---
2	3.5	2.5	3.0	5.5	4.5	5.0	11.5	9.0	10.0	---	---	---
3	3.0	2.0	2.5	4.5	3.5	4.0	10.5	10.5	---	---	---	---
4	2.5	1.5	2.0	4.5	2.5	3.5	---	---	---	---	---	---
5	3.0	1.5	2.5	4.5	2.5	3.5	---	---	---	---	---	---
6	4.0	3.0	3.5	6.5	3.5	5.0	---	---	---	---	---	---
7	4.0	3.0	3.5	7.5	5.5	6.5	---	---	---	---	---	---
8	2.5	1.5	2.0	8.0	6.5	7.5	---	---	---	---	---	---
9	2.5	2.0	2.0	6.5	4.0	5.0	---	---	---	---	---	---
10	2.0	1.0	1.5	4.5	3.0	3.5	---	---	---	---	---	---
11	3.0	1.5	2.0	5.5	4.0	4.5	---	---	---	---	---	---
12	3.0	2.0	2.5	6.5	5.0	5.5	---	---	---	---	---	---
13	2.5	1.5	2.0	8.5	6.5	7.5	---	---	---	---	---	---
14	2.5	1.0	1.5	8.0	5.5	6.5	---	---	---	---	---	---
15	3.0	1.0	2.0	6.5	4.5	5.5	---	---	---	---	---	---
16	5.0	3.0	4.0	6.0	4.0	5.0	---	---	---	---	---	---
17	5.5	4.5	5.0	7.5	5.5	6.5	---	---	---	---	---	---
18	6.5	5.5	6.0	7.0	5.0	6.0	---	---	---	---	---	---
19	8.0	6.5	7.0	9.0	6.5	7.5	---	---	---	---	---	---
20	6.5	5.0	6.0	9.0	8.5	9.0	---	---	---	---	---	---
21	6.0	4.0	5.0	9.5	7.0	8.5	---	---	---	---	---	---
22	6.5	4.0	5.5	9.5	8.0	9.0	---	---	---	---	---	---
23	8.0	6.0	7.0	11.0	9.0	10.0	---	---	---	---	---	---
24	10.0	8.5	9.0	10.0	9.0	9.5	---	---	---	---	---	---
25	10.0	9.0	9.5	12.0	10.0	11.0	---	---	---	---	---	---
26	9.0	7.5	8.0	11.5	8.5	10.0	---	---	---	---	---	---
27	7.5	6.5	7.0	8.5	6.0	7.0	---	---	---	---	---	---
28	6.5	5.0	5.5	6.5	4.5	5.5	---	---	---	---	---	---
29	---	---	---	7.5	5.5	6.5	---	---	---	---	---	---
30	---	---	---	8.5	7.5	8.0	---	---	---	---	---	---
31	---	---	---	8.5	6.0	7.5				---	---	---
MONTH	10.0	1.0	4.5	12.0	2.5	6.5	---	---	---	---	---	---

01411053 HOSPITALITY BRANCH AT BERRYLAND, N. J.

LOCATION.--Lat 39°36'31", long 74°54'34", Gloucester County, at bridge on Piney Hollow Road, 0.3 mi (0.48 km) southwest of Berryland, 1.1 mi (1.77 km) upstream from White Oak Branch, and 5.9 mi (9.5 km) upstream from mouth.

DRAINAGE AREA.--20.0 mi² (51.8 km²).

PERIOD OF RECORD.--Chemical analyses: July to September 1975.

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TOTAL ACIDITY AS H, (MG/L)	DIS-SOLVED OXYGEN (MG/L)	BIO-CHEM-ICAL OXYGEN DEMAND 5 DAY (MG/L)	FECAL COLI-FORM (EC BROTH) (MPN)	FECAL COLI-FORM (COL. PER 100 ML)	TUR-BID-ITY (JTU)	COLOR (PLAT-INUM-COBALT UNITS)	TOTAL ORGANIC NITRO-GEN (N) (MG/L)
JULY 15...	1140	23.1	--	4.8	.3	6.7	1.1	920	540	12	70	.49
AUG. 12...	0940	23.0	46	5.0	--	7.4	2.0	240	154	2	75	.41
SEP. 10...	1410	20.5	46	6.0	--	8.7	.8	--	56	2	25	.22

DATE	AMMONIA NITRO-GEN (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	TOTAL ORTHO PHOS-PHORUS (P) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	CAR-BONATE (CO3) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CARBON DIOXIDE (CO2) (MG/L)
JULY 15...	.01	.01	.09	.50	.60	.04	.01	13	--	0	--	--
AUG. 12...	.04	.01	.19	.45	.65	.01	.01	9.1	--	--	--	--
SEP. 10...	.01	.00	.14	.23	.37	.01	.01	5.9	2	0	3	4.0

DATE	TOTAL ACIDITY AS CACO3 (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	TOTAL NON-FILT-RABLE RESIDUE (MG/L)
JULY 15...	15	7	--	1.4	.8	1.9	.9	3.5	4.5	53	6
AUG. 12...	--	13	--	3.4	1.0	2.4	1.2	4.3	4.6	65	9
SEP. 10...	--	12	10	3.5	.8	2.5	1.2	4.4	5.0	37	2

01411000 HOSPITALITY BRANCH AT PENNY POT, N. J.

LOCATION.--Lat 39°34'11", long 74°49'17", Atlantic County, at bridge on U.S. Route 322 in Penny Pot, 2.5 mi (4.0 km) southeast of Folsom, and 0.1 mi (0.16 km) upstream from mouth.

DRAINAGE AREA.--54.2 mi² (140.0 km²).

PERIOD OF RECORD.--Chemical analyses: July to September 1975.

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	TEMPERATURE (DEG C)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	DISSOLVED OXYGEN (MG/L)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L)	FECAL COLIFORM (EC BROTH) (MPN)	FECAL COLIFORM (COL. PER 100 ML)	TURBIDITY (JTU)	COLOR (PLATINUM-COBALT UNITS)	TOTAL ORGANIC NITROGEN (N) (MG/L)
JULY 15...	1330	24.3	--	4.7	5.9	1.1	920	240	12	40	.59
AUG. 12...	1230	23.5	40	6.5	6.4	.5	350	54	3	70	.49
SEP. 10...	1200	18.0	40	6.6	7.9	.2	--	6	3	35	.36

DATE	AMMONIA NITROGEN (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL ORTHO PHOSPHORUS (P) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)	ALKALINITY AS CACO3 (MG/L)	CARBONATE (CO3) (MG/L)	BICARBONATE (HCO3) (MG/L)
JULY 15...	.00	.00	.06	.59	.65	.03	.01	11	1	0	1
AUG. 12...	.03	.01	.14	.52	.67	.01	.01	8.7	2	--	2
SEP. 10...	.01	.00	.14	.37	.51	.01	.01	5.3	1	0	1

DATE	CARBON DIOXIDE (CO2) (MG/L)	HARDNESS (CA+MG) (MG/L)	NON-CARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	TOTAL NONFILTRABLE RESIDUE (MG/L)
JULY 15...	--	6	5	1.3	.6	2.1	.8	3.5	3.6	43	10
AUG. 12...	1.0	10	8	2.4	.9	2.1	1.0	3.2	5.2	48	6
SEP. 10...	.4	10	9	3.0	.5	2.3	.8	3.5	4.6	31	3

01411110 GREAT EGG HARBOR RIVER AT WEYMOUTH, N. J.

LOCATION.--Lat 39°30'50", long 74°46'47", Atlantic County, at bridge on U.S. Route 322 in Weymouth, 0.5 mi (0.8 km) upstream from Deep Run, and 20.9 mi (33.6 km) upstream from mouth.

DRAINAGE AREA.--154 mi^2 (399 km^2).

PERIOD OF RECORD.--Chemical analyses: June to September 1975.

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	TEMPERATURE (DEG C)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TOTAL ACIDITY AS H+ (MG/L)	DISSOLVED OXYGEN (MG/L)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L)	FECAL COLIFORM (EC BROTH) (MPN)	FECAL COLIFORM (COL. PER 100 ML)	TURBIDITY (JTU)	COLOR (PLATINUM-COBALT UNITS)	TOTAL ORGANIC NITROGEN (N) (MG/L)
JUNE 25...	1245	22.0	101	4.8	.3	7.3	.9	920	370	4	40	.41
JULY 15...	1515	22.5	--	5.9	.5	6.7	1.2	540	430	10	75	.62
AUG. 12...	1320	22.3	57	6.4	--	7.5	2.0	540	114	3	140	.50
SEP. 10...	1125	17.0	77	5.9	--	9.0	.0	--	12	4	3	.22

DATE	AMMONIA NITROGEN (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL ORTHO PHOSPHORUS (P) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)	ALKALINITY AS CACO3 (MG/L)	CARBONATE (CO3) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBON DIOXIDE (CO2) (MG/L)
JUNE 25...	.08	.01	.54	.49	1.0	.12	.02	13	0	0	0	.0
JULY 15...	.01	.00	.10	.63	.73	.09	.02	15	0	0	0	.0
AUG. 12...	.03	.01	.29	.53	.83	.10	.08	--	2	--	2	1.3
SEP. 10...	.02	.00	.71	.24	.95	.05	.03	5.0	--	0	--	--

DATE	TOTAL ACIDITY AS CACO3 (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	TOTAL NONFILTRABLE RESIDUE (MG/L)
JUNE 25...	15	10	10	2.3	1.0	5.6	1.2	11	6.8	59	18
JULY 15...	25	7	7	1.5	.8	3.1	1.1	4.8	5.6	55	9
AUG. 12...	--	8	6	2.1	.6	4.3	1.1	7.0	6.7	81	3
SEP. 10...	--	11	--	3.2	.8	6.4	1.4	11	6.2	46	12

F

01411140 DEEP RUN NEAR WEYMOUTH, N. J.

LOCATION.--Lat 39°30'26", long 74°46'56", Atlantic County, at bridge on State Route 559, 0.60 mi (0.97 km) south of intersection with U.S. Route 322, 0.6 mi (1.0 km) south of Weymouth, and 0.2 mi (0.3 km) upstream from mouth.

DRAINAGE AREA.--20.0 mi² (51.8 km²).

PERIOD OF RECORD.--Chemical analyses: July to September 1975.

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TOTAL ACIDITY AS H+ (MG/L)	DIS-SOLVED OXYGEN (MG/L)	BIO-CHEM-ICAL OXYGEN DEMAND 5 DAY (MG/L)	FECAL COLI-FORM (EC BROTH) (MPN)	FECAL COLI-FORM (COL. PER 100 ML)	TUR-BID-ITY (JTU)	COLOR (PLAT-INUM-COBALT UNITS)	TOTAL ORGANIC NITRO-GEN (N) (MG/L)
JULY 15...	1430	21.0	--	3.9	.5	5.9	1.0	130	140	6	130	.61
AUG. 12...	1415	20.0	51	7.0	--	8.3	1.7	49	42	1	35	.31
SEP. 10...	1050	13.0	53	6.9	--	9.4	1.1	--	--	2	15	.13

DATE	AMMONIA NITRO-GEN (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	TOTAL ORTHO PHOS-PHORUS (P) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	CAR-BONATE (CO3) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CARBON DIOXIDE (CO2) (MG/L)
JULY 15...	.00	.01	.05	.61	.67	.06	.04	19	0	0	0	.0
AUG. 12...	.01	.01	.33	.32	.66	.08	.08	9.3	1	--	1	.2
SEP. 10...	.00	.00	.28	.13	.41	.06	.04	3.5	2	0	2	.4

DATE	TOTAL ACIDITY AS CACO3 (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	TOTAL NON-FILT-RABLE RESIDUE (MG/L)
JULY 15...	25	6	6	1.3	.6	2.7	.7	6.7	7.8	74	5
AUG. 12...	--	9	8	2.8	.5	3.7	1.4	4.7	6.7	54	1
SEP. 10...	--	11	9	3.5	.5	4.0	1.2	4.8	7.2	42	1

01411170 GREAT EGG HARBOR RIVER AT MAYS LANDING, N. J.

LOCATION.--Lat 39°27'13", long 74°44'04", Atlantic County, at bridge on Route 559, at outlet of Lake Lenape, 0.4 mi (0.6 km) west of intersection of State Route 50 with U.S. Route 40 in Mays Landing.

DRAINAGE AREA.--205 mi² (531 km²).

PERIOD OF RECORD.--Chemical analyses: June to September 1975.

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TOTAL ACIDITY AS H+ (MG/L)	DIS-SOLVED OXYGEN (MG/L)	BIO-CHEM-ICAL OXYGEN DEMAND 5 DAY (MG/L)	FECAL COLI-FORM (EC BROTH) (MPN)	FECAL COLI-FORM (COL. PER 100 ML)	TUR-BID-ITY (JTU)	COLOR (PLAT-INUM-COBALT UNITS)	TOTAL ORGANIC NITRO-GEN (N) (MG/L)
JUNE 25...	1330	22.6	57	4.9	.4	8.0	1.9	46	20	5	100	.61
JULY 17...	1340	--	47	--	--	7.4	1.3	33	--	4	150	.62
AUG. 12...	1450	25.0	57	6.4	--	8.4	3.0	240	200	5	160	.77
SEP. 10...	1010	21.0	73	6.3	--	8.3	.0	--	32	4	35	.26

DATE	AMMONIA NITRO-GEN (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	TOTAL ORTHO PHOS-PHORUS (P) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	CAR-BONATE (CO3) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CARBON DIOXIDE (CO2) (MG/L)
JUNE 25...	.01	.01	.23	.62	.86	.11	.04	20	0	0	0	.0
JULY 17...	.05	.01	.04	.67	.72	.11	.05	10	0	--	0	--
AUG. 12...	.04	.01	.10	.81	.92	.10	.08	14	1	--	1	.6
SEP. 10...	.01	.01	.49	.27	.77	.01	.01	--	2	0	3	2.4

DATE	TOTAL ACIDITY AS CACO3 (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	TOTAL NON-FILT-RABLE RESIDUE (MG/L)
JUNE 25...	20	10	10	2.5	.9	4.6	1.1	10	7.2	61	8
JULY 17...	--	10	10	2.6	.8	2.5	.8	5.3	7.1	29	14
AUG. 12...	--	10	9	2.4	1.0	4.0	1.1	7.3	7.6	63	4
SEP. 10...	--	10	8	3.0	.6	5.6	1.2	8.0	6.0	46	2

01411196 BABCOCK CREEK NEAR MAYS LANDING, N. J.

LOCATION.--Lat 39°28'08", long 74°41'34", Atlantic County, at bridge on U.S. Route 322, 2.2 mi (3.5 km) northeast of intersection of U.S. Route 40 with State Route 50, and 1.3 mi (2.1 km) downstream from Jack Pudding Branch.

DRAINAGE AREA.--16.3 mi^2 (42.2 km^2).

PERIOD OF RECORD.--Chemical analyses: July to September 1975.

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TOTAL ACIDITY AS H+ (MG/L)	DIS-SOLVED OXYGEN (MG/L)	BIO-CHEM-ICAL OXYGEN DEMAND 5 DAY (MG/L)	FECAL COLI-FORM (EC BROTH) (MPN)	FECAL COLI-FORM (COL. PER 100 ML)	TUR-BID-ITY (JTU)	COLOR (PLAT-INUM-COBALT UNITS)	TOTAL ORGANIC NITRO-GEN (N) (MG/L)
JULY 17...	1400	21.3	53	--	1.3	6.4	1.3	130	--	10	200	.61
AUG. 12...	1640	19.0	38	6.4	--	7.4	.4	240	40	2	40	.26
SEP. 10...	0915	12.5	38	5.2	--	8.6	.2	--	22	1	20	.22

DATE	AMMONIA NITRO-GEN (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	TOTAL ORTHO PHOS-PHORUS (P) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	CAR-BONATE (CO3) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CARBON DIOXIDE (CO2) (MG/L)
JULY 17...	.08	.01	.06	.69	.76	.05	.02	22	0	--	0	--
AUG. 12...	.01	.01	.16	.27	.44	.03	.03	7.2	0	--	0	.0
SEP. 10...	.01	.00	.20	.23	.43	.04	.02	3.3	--	0	--	--

DATE	TOTAL ACIDITY AS CACO3 (MG/L)	HARD-NESS (CA+MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	TOTAL NON-FILT-RABLE RESIDUE (MG/L)
JULY 17...	65	8	8	1.8	.8	3.0	.9	7.6	8.2	36	4
AUG. 12...	--	7	7	1.6	.7	2.7	.8	5.4	4.4	43	1
SEP. 10...	--	6	--	1.6	.4	2.8	.8	4.6	3.4	30	6

01411290 TUCKAHOE RIVER NEAR ESTELL MANOR, N. J.

LOCATION.--Lat 39°22'19", long 74°51'14", Atlantic County, at bridge at Atlantic-Cumberland County boundary, at Cumberland Avenue, and 0.8 mi (1.3 km) upstream from Sharps Branch.

DRAINAGE AREA.--8.78 mi² (22.74 km²).

PERIOD OF RECORD.--Chemical analyses: May to September 1975.

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TOTAL ACIDITY AS H+ (MG/L)	DIS-SOLVED OXYGEN (MG/L)	BIO-CHEM-ICAL OXYGEN DEMAND 5 DAY (MG/L)	FECAL COLI-FORM (EC BROTH) (MPN)	FECAL COLI-FORM (COL. PER 100 ML)	TUR-BID-ITY (JTU)	COLOR (PLAT-INUM-COBALT UNITS)	TOTAL ORGANIC NITRO-GEN (N) (MG/L)
MAY 29...	1200	21.3	53	4.6	--	8.9	1.6	23	54	2	110	.04
JUNE 11...	1650	19.0	30	4.7	--	9.6	1.0	23	70	1	100	.26
JULY 17...	1200	24.4	32	--	.2	5.6	1.2	49	70	2	96	.39
AUG. 13...	1600	27.5	25	6.4	--	7.6	2.0	46	38	2	60	.33
SEP. 11...	1310	19.0	26	5.8	--	8.5	.7	--	12	2	30	.22

DATE	AMMONIA NITRO-GEN (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	TOTAL ORTHO PHOS-PHORUS (P) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	CAR-BONATE (CO3) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CARBON DIOXIDE (CO2) (MG/L)
MAY 29...	.01	.01	.03	.05	.09	.03	.01	14	0	--	0	.9
JUNE 11...	.02	.00	.04	.28	.32	.01	.01	8.6	0	--	0	.8
JULY 17...	.05	.01	.02	.44	.47	.19	.01	12	0	--	0	--
AUG. 13...	.01	.01	.03	.34	.38	.01	.01	8.0	1	0	1	.6
SEP. 11...	.01	.01	.02	.23	.26	.01	.01	5.0	--	0	--	--

DATE	TOTAL ACIDITY AS CACO3 (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	TOTAL NON-FILT-RABLE RESIDUE (MG/L)
MAY 29...	--	10	10	2.0	1.2	1.7	.4	4.9	4.1	43	6
JUNE 11...	--	7	7	2.3	.4	2.0	.2	5.0	4.1	28	1
JULY 17...	10	4	4	.9	.5	1.7	.3	4.2	3.9	17	0
AUG. 13...	--	5	4	1.2	.4	1.8	.4	4.3	2.9	78	3
SEP. 11...	--	5	--	1.9	.1	2.1	.4	2.5	1.8	32	2

01411300 TUCKAHOE RIVER AT HEAD OF RIVER, N. J.

LOCATION.--Lat 39°18'25", long 74°49'15", Cape May County, at gaging station at bridge on State Route 49, 0.2 mi (0.3 km) upstream from McNeals Branch, 0.4 mi (0.6 km) southeast of Head of River, and 3.7 mi (6.0 km) west of Tuckahoe.

DRAINAGE AREA.--30.8 mi² (79.8 km²).

PERIOD OF RECORD.--Chemical analyses: May to September 1975.

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TOTAL ACIDITY AS H+ (MG/L)	DIS-SOLVED OXYGEN (MG/L)	BIO-CHEM-ICAL OXYGEN DEMAND 5 DAY (MG/L)	FECAL COLI-FORM (EC BROTH) (MPN)	FECAL COLI-FORM (COL. PER 100 ML)	TUR-BID-ITY (JTU)	COLOR (PLAT-INUM-COBALT UNITS)	TOTAL ORGANIC NITRO-GEN (N) (MG/L)
MAY 29...	1250	19.3	17	4.7	.2	7.2	1.6	79	72	2	65	.81
JUNE 11...	1730	18.2	31	7.2	--	8.3	.7	33	20	1	70	.19
JULY 17...	1250	24.0	37	--	1.1	5.4	1.0	17	--	5	120	.41
AUG. 13...	1500	23.5	29	6.6	--	8.2	2.2	33	26	1	44	.24
SEP. 11...	1400	15.5	28	5.7	--	8.8	.1	--	8	1	20	.16

DATE	AMMONIA NITRO-GEN (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	TOTAL ORTHO PHOS-PHORUS (P) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	CAR-BONATE (CO3) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CARBON DIOXIDE (CO2) (MG/L)
MAY 29...	.02	.01	.08	.83	.92	.05	.01	12	0	--	0	.0
JUNE 11...	.03	.01	.08	.22	.31	.02	.01	5.2	2	--	3	.3
JULY 17...	.06	.01	.01	.47	.49	.03	.01	17	0	--	0	--
AUG. 13...	.00	.01	.04	.24	.29	.01	.01	7.4	2	0	3	1.2
SEP. 11...	.01	.00	.01	.17	.18	.03	.01	5.8	2	0	2	6.4

DATE	TOTAL ACIDITY AS CACO3 (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	TOTAL NON-FILT-RABLE RESIDUE (MG/L)
MAY 29...	10	8	8	1.3	1.1	1.9	.4	4.7	4.8	38	61
JUNE 11...	--	7	5	1.8	.6	2.2	.2	4.9	3.2	19	9
JULY 17...	55	4	4	.9	.5	1.6	.2	4.9	4.6	21	8
AUG. 13...	--	4	2	1.2	.3	2.1	.3	3.3	2.9	49	9
SEP. 11...	--	5	4	2.0	.1	2.0	.4	2.9	3.0	52	4

01411463 SCOTLAND RUN NEAR FRANKLINVILLE, N. J.

LOCATION.--Lat 39°35'48", long 75°03'51", Gloucester County, at bridge on State Route 47, 1.1 mi (1.8 km) east of Porchtown, 1.5 mi (2.4 km) southeast of Franklinville, and 1.1 mi (1.8 km) upstream of Malaga Lake.

DRAINAGE AREA.--16.4 mi² (42.5 km²).

PERIOD OF RECORD.--Chemical analyses: July to September 1975.

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TOTAL ACIDITY AS H+ (MG/L)	DIS-SOLVED OXYGEN (MG/L)	BIO-CHEM-ICAL OXYGEN DEMAND 5 DAY (MG/L)	FECAL COLI-FORM (EC BROTH) (MPN)	FECAL COLI-FORM (COL. PER 100 ML)	TUR-BID-ITY (JTU)	COLOR (PLAT-INUM-COBALT UNITS)	TOTAL ORGANIC NITRO-GEN (N) (MG/L)
JULY 17...	0900	23.5	61	4.1	.5	5.0	.9	80	--	2	190	.60
AUG. 13...	0820	24.4	46	5.8	--	7.5	2.0	<20	54	2	90	.46
SEP. 09...	0820	21.0	57	6.1	--	8.1	.6	--	8	1	45	.25

DATE	AMMONIA NITRO-GEN (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	TOTAL ORTHO PHOS-PHORUS (P) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	CAR-BONATE (CO3) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CARBON DIOXIDE (CO2) (MG/L)
JULY 17...	.09	.01	.06	.69	.76	.03	.01	16	0	0	0	.0
AUG. 13...	.01	.01	.35	.47	.83	.01	.01	11	1	0	1	2.5
SEP. 09...	.02	.01	.55	.27	.83	.01	.01	--	10	0	12	19

DATE	TOTAL ACIDITY AS CACO3 (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	TOTAL NON-FILT-RABLE RESIDUE (MG/L)
JULY 17...	25	12	12	2.8	1.2	1.5	1.3	4.1	11	41	0
AUG. 13...	--	15	15	4.7	.9	2.3	1.1	4.2	7.1	76	2
SEP. 09...	--	12	2	2.0	1.6	2.4	1.2	4.5	6.0	45	1

MAURICE RIVER BASIN

01411500 MAURICE RIVER AT NORMA, N. J.

LOCATION.--Lat 39°29'42", long 75°04'38", Salem County, at bridge on Almond Road at Norma, 0.8 mi (1.3 km) downstream from Blackwater Branch.

DRAINAGE AREA.--113 mi² (293 km²).

PERIOD OF RECORD.--Chemical analyses: Water years 1966-72 (partial-record station), October 1972 to September 1975.
Water temperatures: October 1960 to January 1968.
Sediment records: February 1965 to January 1968.

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	TEMPERATURE (DEG C)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TOTAL ACIDITY AS H+ (MG/L)	DISSOLVED OXYGEN (MG/L)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L)	IMMEDIATE COLIFORM (COL. PER 100 ML)	FECAL COLIFORM (EC BROTH) (MPN)
OCT.										
16...	1045	96	15.3	80	6.4	--	8.4	3.1	--	--
NOV.										
20...	1250	85	9.0	91	6.8	--	10.0	1.0	500	--
MAR.										
12...	1300	165	5.4	81	6.1	--	11.4	1.5	--	8
APR.										
10...	0900	214	11.3	60	5.8	--	9.4	--	--	23
MAY										
09...	1000	231	17.5	41	5.6	--	8.9	2.8	--	<2
JUNE										
10...	1450	261	18.2	69	5.9	--	7.4	1.3	--	230
JULY										
16...	1630	1170	22.7	--	4.3	.5	4.7	1.0	--	170
AUG.										
13...	1015	140	23.0	73	6.7	--	7.5	1.0	--	1300
SEP.										
09...	0915	183	19.0	81	6.2	--	7.9	.8	--	--

DATE	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)	TURBIDITY (JTU)	COLOR (PLATINUM-COBALT UNITS)	TOTAL ORGANIC NITROGEN (N) (MG/L)	AMMONIA NITROGEN (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)
OCT.										
16...	3000	2330	--	--	--	--	--	--	--	--
NOV.										
20...	30	190	--	--	.00	.26	.00	1.4	.26	1.7
MAR.										
12...	--	--	2	10	.15	.08	.01	1.7	.23	1.9
APR.										
10...	5	--	2	20	.17	.08	.01	1.2	.25	1.5
MAY										
09...	7	--	2	65	.47	.01	.03	.79	.48	1.3
JUNE										
10...	100	--	5	150	.51	.04	.01	.72	.55	1.3
JULY										
16...	195	--	6	150	.58	.01	.01	.25	.59	.85
AUG.										
13...	160	--	3	100	.37	.04	.01	1.2	.41	1.6
SEP.										
09...	--	--	2	95	.37	.01	.01	1.7	.38	2.1

01411500 MAURICE RIVER AT NORMA, N. J.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TOTAL PHOS-PHORUS (P) (MG/L)	TOTAL ORTHO PHOS-PHORUS (P) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	CAR-BONATE (CO3) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	TOTAL ACIDITY AS CACO3 (MG/L)	HARD-NESS (CA,MG) (MG/L)
OCT.									
16...	--	--	--	--	--	--	--	--	--
NOV.									
20...	.08	.03	9.7	--	--	--	--	--	--
MAR.									
12...	.08	.08	--	2	0	3	3.8	--	15
APR.									
18...	.04	.01	7.7	2	0	3	7.6	--	14
MAY									
09...	.08	.02	12	3	0	4	16	--	10
JUNE									
10...	.11	.06	--	6	0	7	14	--	15
JULY									
16...	.06	.03	21	0	0	0	.0	25	15
AUG.									
13...	.05	.03	13	6	0	7	2.2	--	14
SEP.									
09...	.05	.02	9.3	6	0	7	7.1	--	19

DATE	NON-CAR-BONATE HARD-NESS (MG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	TOTAL NON-FILT-RABLE RESIDUE (MG/L)
OCT.									
16...	--	--	--	--	--	--	--	--	--
NOV.									
20...	--	--	--	--	--	--	--	--	--
MAR.									
12...	13	3.7	1.5	8.4	3.6	8.8	14	14	10
APR.									
18...	12	4.0	1.0	8.3	1.0	9.3	14	70	0
MAY									
09...	7	3.0	.7	5.5	1.3	9.3	12	67	14
JUNE									
10...	9	3.5	1.5	5.8	1.7	7.5	8.4	67	26
JULY									
16...	15	4.1	1.2	4.3	1.4	4.0	9.0	84	2
AUG.									
13...	8	4.0	1.0	5.8	1.7	7.8	8.2	76	29
SEP.									
09...	13	4.0	2.1	6.1	1.7	7.5	8.4	77	6

01411780 MUDDY RUN NEAR NORMA, N. J.

LOCATION.--Lat 39°28'13", long 75°05'36", Salem County, at bridge on Lebanon Road, 1.0 mi (1.6 km) upstream of confluence with Maurice River, 1.6 mi (2.6 km) southeast of Rainbow Lake, and 1.6 mi (2.6 km) south of Norma.

DRAINAGE AREA.--56.5 mi² (146.3 km²).

PERIOD OF RECORD.--Chemical analyses: May to September 1975.

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	TEMPERATURE (DEG C)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	DISSOLVED OXYGEN (MG/L)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L)	FECAL COLIFORM (EC BROTH) (MPN)	FECAL COLIFORM (COL. PER 100 ML)	TURBIDITY (JTU)	COLOR (PLATINUM-COBALT UNITS)	TOTAL ORGANIC NITROGEN (N) (MG/L)
MAY 29...	0930	21.2	77	6.1	7.1	1.7	79	72	8	85	1.4
JUNE 10...	1510	19.5	88	6.5	7.5	1.6	240	83	20	110	.54
JULY 16...	1700	23.0	--	6.0	6.3	2.5	>2400	510	43	100	.54
AUG. 13...	1130	25.0	104	6.3	6.8	2.5	<20	96	3	45	.42
SEP. 09...	1000	21.0	114	6.9	8.0	1.6	--	56	2	19	.50

DATE	AMMONIA NITROGEN (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL ORTHO PHOSPHORUS (P) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)	ALKALINITY AS CACO3 (MG/L)	CARBONATE (CO3) (MG/L)	BICARBONATE (HCO3) (MG/L)
MAY 29...	.08	.01	.99	1.5	2.5	.10	.02	9.9	8	--	10
JUNE 10...	.08	.03	1.1	.62	1.7	.17	.04	12	11	0	13
JULY 16...	.03	.01	.29	.57	.87	.25	.07	15	3	0	4
AUG. 13...	.03	.01	1.2	.45	1.7	.04	.03	7.7	13	0	16
SEP. 09...	.02	.01	1.3	.52	1.8	.03	.01	6.4	13	0	16

DATE	CARBON DIOXIDE (CO2) (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	TOTAL NONFILTRABLE RESIDUE (MG/L)
MAY 29...	13	25	17	5.7	2.7	2.8	2.5	7.8	11	60	13
JUNE 10...	6.6	22	12	5.6	2.0	2.9	2.6	7.8	6.0	72	27
JULY 16...	6.4	16	13	3.9	1.6	1.4	2.7	5.0	8.2	73	33
AUG. 13...	13	30	17	7.0	3.0	3.9	2.7	9.6	7.3	32	2
SEP. 09...	3.2	33	20	7.0	3.8	3.7	2.4	8.9	7.9	73	5

01411800 MAURICE RIVER NEAR MILLVILLE, N. J.

LOCATION.--Lat 39°26'52", long 75°04'22", Cumberland County, at bridge on Sherman Avenue, 3.5 mi (5.6 km) north of mouth of Union Lake at Millville, and 4.0 mi (6.4 km) southwest of Vineland.

DRAINAGE AREA.--193 mi² (500 km²).

PERIOD OF RECORD.--Chemical analyses: May to September 1975.

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	TEMPERATURE (DEG C)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	DISSOLVED OXYGEN (MG/L)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L)	FECAL COLIFORM (EC BROTH) (MPN)	FECAL COLIFORM (COL. PER 100 ML)	TURBIDITY (JTU)	COLOR (PLATINUM-COBALT UNITS)	TOTAL ORGANIC NITROGEN (N) (MG/L)
MAY 28...	1505	21.7	93	6.0	6.6	2.0	540	80	4	190	.47
JUNE 10...	1400	18.1	96	--	7.2	1.3	350	92	7	160	.36
JULY 16...	1515	22.0	--	5.9	5.0	1.1	140	180	8	150	.37
AUG. 13...	1220	22.0	99	6.7	6.7	2.4	350	260	3	80	.49
SEP. 09...	1050	19.5	95	6.4	7.7	1.2	--	84	3	50	.39

DATE	AMMONIA NITROGEN (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL ORTHO PHOSPHORUS (P) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)	ALKALINITY AS CACO3 (MG/L)	CARBONATE (CO3) (MG/L)	BICARBONATE (HCO3) (MG/L)
MAY 28...	.63	.02	.98	1.1	2.1	.13	.06	15	--	0	--
JUNE 10...	.62	.02	1.1	.98	2.1	.13	.06	24	--	--	--
JULY 16...	.73	.01	.48	1.1	1.6	.09	.04	18	7	0	8
AUG. 13...	.35	.01	1.4	.84	2.2	.05	.04	9.8	11	0	13
SEP. 09...	.17	.01	2.0	.56	2.6	.03	.01	6.7	8	0	10

DATE	CARBON DIOXIDE (CO2) (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	TOTAL NONFILTRABLE RESIDUE (MG/L)
MAY 28...	--	19	--	3.8	2.3	8.5	2.5	12	12	78	14
JUNE 10...	--	12	--	2.8	1.1	6.3	1.6	9.4	5.6	67	26
JULY 16...	--	14	7	3.0	1.5	8.3	2.3	10	10	96	5
AUG. 13...	4.2	23	13	5.4	2.4	8.0	2.2	11	8.5	92	14
SEP. 09...	6.4	20	12	4.0	2.5	6.4	2.1	9.2	8.2	80	7

01411880 MAURICE RIVER AT SHARP STREET AT MILLVILLE, N. J.

LOCATION.--Lat 39°24'01", long 75°03'15", Cumberland County, at partial-record gaging station at bridge on Sharp Street, 200 ft (61 m) downstream from Union Lake, and 0.9 mi (1.4 km) northwest of Millville.

DRAINAGE AREA.--218 mi² (565 km²).

PERIOD OF RECORD.--Chemical analyses: May to September 1975.

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	TEMPERATURE (DEG C)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	DISSOLVED OXYGEN (MG/L)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L)	FECAL COLIFORM (EC BROTH) (MPN)	FECAL COLIFORM (COL. PER 100 ML)	TURBIDITY (JTU)	COLOR (PLATINUM-COBALT UNITS)	TOTAL ORGANIC NITROGEN (N) (MG/L)
MAY 28...	1355	24.0	93	5.9	8.6	2.1	17	36	24	150	3.2
JUNE 11...	1355	20.5	74	6.1	8.4	.6	13	20	5	120	.55
JULY 16...	1436	22.0	--	5.8	8.6	1.2	920	360	20	50	.60
AUG. 14...	0945	25.0	111	6.1	8.1	1.9	33	14	4	120	.65
SEP. 11...	1050	19.0	90	6.4	6.6	1.0	--	42	6	50	.46

DATE	AMMONIA NITROGEN (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL ORTHO PHOSPHORUS (P) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)	ALKALINITY AS CACO3 (MG/L)	CARBONATE (CO3) (MG/L)	BICARBONATE (HCO3) (MG/L)
MAY 28...	.71	.03	3.4	3.9	7.3	.13	.10	13	--	0	--
JUNE 11...	.20	.01	.80	.75	1.6	.12	.08	11	6	--	7
JULY 16...	.08	.01	.30	.68	.99	.18	.05	14	2	0	3
AUG. 14...	.12	.02	.82	.77	1.6	.05	.04	13	10	0	12
SEP. 11...	.08	.01	.91	.54	1.5	.04	.01	8.2	31	0	38

DATE	CARBON DIOXIDE (CO2) (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	TOTAL NONFILTRABLE RESIDUE (MG/L)
MAY 28...	--	17	--	3.7	1.9	5.3	1.9	6.9	11	64	32
JUNE 11...	8.9	19	13	4.0	2.1	5.5	2.0	8.6	11	60	9
JULY 16...	7.6	13	10	2.7	1.4	3.3	2.0	5.7	7.3	78	22
AUG. 14...	15	20	10	4.5	2.2	6.4	2.1	7.8	9.4	66	9
SEP. 11...	24	26	0	7.0	2.1	6.2	1.9	6.7	6.8	77	2

01412020 MANANTICO CREEK NEAR PORT ELIZABETH, N. J.

LOCATION.--Lat 39°21'10", long 75°00'06", Cumberland County, at bridge on State Route 55, 1.4 mi (2.3 km) upstream from mouth at Maurice River, 2.7 mi (4.3 km) northwest of Port Elizabeth, and 2.0 mi (3.2 km) southeast of Millville.

DRAINAGE AREA.--36.2 mi² (93.8 km²).

PERIOD OF RECORD.--Chemical analyses: May to September 1975.

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	DIS-SOLVED OXYGEN (MG/L)	BIO-CHEM-ICAL OXYGEN DEMAND 5 DAY (MG/L)	FECAL COLI-FORM (EC BROTH) (MPN)	FECAL COLI-FORM (COL. PER 100 ML)	TUR-BID-ITY (JTU)	COLOR (PLAT-INUM-COBALT UNITS)	TOTAL ORGANIC NITRO-GEN (N) (MG/L)
MAY 29...	1040	21.0	66	5.8	9.1	2.0	79	44	6	56	.41
JUNE 11...	1450	20.1	67	6.3	7.9	.3	110	120	5	70	.49
JULY 17...	1015	23.7	60	5.1	5.1	1.3	23	--	7	55	.57
AUG. 13...	1320	25.7	41	6.7	9.4	2.8	330	12	3	16	.31
SEP. 11...	1140	19.5	65	6.3	8.5	1.1	--	8	3	2	.25

DATE	AMMONIA NITRO-GEN (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	TOTAL ORTHO PHOS-PHORUS (P) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	CAR-BONATE (CO3) (MG/L)	BICAR-BONATE (HCO3) (MG/L)
MAY 29...	.01	.01	1.2	.42	1.6	.06	.01	13	2	--	3
JUNE 11...	.04	.01	.98	.53	1.5	.06	.03	7.6	8	--	10
JULY 17...	.08	.01	.47	.65	1.1	.09	.04	14	0	0	0
AUG. 13...	.01	.01	.79	.32	1.1	.03	.01	5.3	4	0	5
SEP. 11...	.02	.01	.89	.27	1.2	.03	.01	5.0	4	0	5

DATE	CARBON DIOXIDE (CO2) (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	TOTAL NON-FILT-RABLE RESIDUE (MG/L)
MAY 29...	7.6	20	17	4.6	2.0	2.8	2.4	7.5	12	55	15
JUNE 11...	8.0	23	15	5.8	2.0	3.1	2.2	6.8	8.7	47	6
JULY 17...	.0	17	17	4.3	1.6	2.2	2.2	6.5	10	46	14
AUG. 13...	1.6	17	12	4.0	1.6	3.1	1.9	6.0	6.5	52	5
SEP. 11...	4.0	15	10	5.0	.5	3.0	2.0	4.5	7.0	74	4

MAURICE RIVER BASIN

01412100 MANUMUSKIN RIVER NEAR MANUMUSKIN, N. J.

LOCATION.--Lat 39°20'57", long 74°57'31", Cumberland County, at bridge on light-duty road, 5.0 mi (8.0 km) upstream from mouth, 1.1 mi (1.8 km) north of Manumuskin, and 2.9 mi (4.7 km) northeast of Port Elizabeth.

DRAINAGE AREA.--32.0 mi² (82.9 km²).

PERIOD OF RECORD.--Chemical analyses: May to September 1975.

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	TEMPERATURE (DEG C)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TOTAL ACIDITY AS H+ (MG/L)	DISSOLVED OXYGEN (MG/L)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L)	FECAL COLIFORM (EC BROTH) (MPN)	FECAL COLIFORM (COL. PER 100 ML)	TURBIDITY (JTU)	COLOR (PLATINUM-COBALT UNITS)	TOTAL ORGANIC NITROGEN (N) (MG/L)
MAY 29...	1115	18.5	30	4.5	.3	7.2	1.1	240	24	2	100	.28
JUNE 11...	1610	17.0	39	4.5	.2	8.2	.3	11	30	1	65	.28
JULY 17...	1100	22.6	39	--	1.0	5.9	.9	33	90	3	110	.37
AUG. 13...	1415	21.5	35	6.0	.5	7.4	1.5	23	32	2	37	.19
SEP. 11...	1230	16.0	83	4.9	.2	8.1	.8	--	2	1	15	.11

DATE	AMMONIA NITROGEN (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL ORTHO PHOSPHORUS (P) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)	ALKALINITY AS CACO3 (MG/L)	CARBONATE (CO3) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBON DIOXIDE (CO2) (MG/L)
MAY 29...	.01	.01	.01	.29	.31	.03	.01	16	0	--	0	.0
JUNE 11...	.03	.03	.01	.31	.35	.02	.01	12	0	--	0	.0
JULY 17...	.04	.00	.01	.41	.42	.03	.01	10	--	--	--	--
AUG. 13...	.00	.01	.06	.19	.26	.01	.01	5.9	0	0	0	.0
SEP. 11...	.01	.00	.05	.12	.17	.03	.01	4.5	0	0	0	.0

DATE	TOTAL ACIDITY AS CACO3 (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	TOTAL NONFILTRABLE RESIDUE (MG/L)
MAY 29...	15	15	15	4.0	1.3	1.7	.6	4.6	7.0	35	5
JUNE 11...	10	7	7	1.7	.6	1.8	.2	5.0	4.5	35	3
JULY 17...	50	5	--	1.0	.5	1.6	.3	4.1	6.0	24	0
AUG. 13...	25	10	10	3.4	.3	1.9	.3	3.1	4.1	40	4
SEP. 11...	10	5	5	2.0	.1	2.0	.4	2.4	4.5	50	2

DELAWARE BAY

01412350 DELAWARE BAY AT SHIP JOHN SHOAL LIGHTHOUSE, N. J.

LOCATION.--Lat 39°18'19", long 75°22'37", Cumberland County, water-quality recorder on light ship in bay opposite Bombay Hook Island, Del., and 3.0 mi (4.8 km) south southwest of mouth of Cohansey River, N.J.

PERIOD OF RECORD.--Chemical analyses: April 1969 to September 1975.
Water temperatures: October 1970 to September 1975.

EXTREMES.--1974-75:
Specific conductance: Maximum, 31,300 micromhos Apr. 9; minimum, 3,090 micromhos Apr. 4.
Water temperatures: Maximum, 29.0°C Aug. 3; minimum, 1.5°C Feb. 15.
Period of record:
Specific conductance: Maximum, 52,800 micromhos Feb. 10, 1970; minimum, 570 micromhos Dec. 17, 1972.
Water temperatures: Maximum, 30.0°C Aug. 1, 1970; minimum, freezing point Feb. 18, 19, 1973.

REMARKS.--Missing continuous water-quality records are the result of malfunction of sensor or sampling mechanism.

SPECIFIC CONDUCTANCE (MICROMHOS AT 25°C), WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	25200	18300	22800	27900	22700	25400	---	---	---	22500	16100	19500
2	25100	20500	23200	27600	22700	24900	---	---	---	23000	12000	17400
3	25400	19500	22800	28100	23600	25500	---	---	---	23100	15000	19300
4	26700	18700	23200	27400	23000	25400	---	---	---	22400	16400	20100
5	25700	19600	23300	27100	22500	24800	---	---	---	22200	15800	19600
6	24800	18800	22400	27400	22400	24700	---	---	---	23500	15000	20400
7	25200	18600	22300	28500	23200	25700	---	---	---	23100	15600	19900
8	26900	19800	23000	30900	24300	27600	---	---	---	23300	16900	20400
9	27200	20700	24200	30600	24200	28500	---	---	---	23800	17500	20600
10	26000	19700	24000	31100	26200	29200	---	---	---	24800	16100	21000
11	27600	20400	24100	31100	26700	---	---	---	---	24200	16800	20200
12	26700	19200	24400	---	---	---	23300	14600	---	20600	12700	17400
13	27400	21600	24500	---	---	---	23200	15400	19200	20900	13100	17500
14	28300	22700	25500	---	---	---	23100	14800	19000	18700	10700	15000
15	26700	21200	24100	---	---	---	23000	13700	18900	18000	8920	14000
16	26900	21200	23800	---	---	---	26700	16500	21600	17600	8830	13500
17	27600	21400	23900	---	---	---	20900	12000	17200	14700	8190	12000
18	26400	20800	23300	---	---	---	19000	8610	14100	18300	10100	14100
19	26900	19900	23900	---	---	---	18300	8210	13700	17400	10200	14000
20	25900	20700	23700	---	---	---	17600	10100	13900	17000	11800	14200
21	25600	19600	23100	---	---	---	20400	11800	15900	20100	7590	14900
22	25600	17400	22300	---	---	---	19700	11000	15700	22400	9960	15700
23	25700	17500	22100	---	---	---	20700	10000	16100	21400	11900	17300
24	28100	19600	23600	---	---	---	20800	10800	16800	21900	13400	18800
25	27900	19300	24200	---	---	---	21600	13900	18500	23900	17200	20700
26	26500	20500	23900	---	---	---	22400	14300	19200	23200	14900	18700
27	26400	22400	24400	26500	20000	---	23800	16800	20500	20000	11600	15400
28	27700	23500	25800	27600	23200	---	23500	18200	20400	22200	13600	17500
29	28300	22700	26100	---	---	---	23500	18200	20600	22500	12600	17400
30	27200	23500	25500	---	---	---	23900	17000	20200	17800	10300	14500
31	27900	23500	25500				24000	17000	20200	19600	11300	15700
MONTH	28300	17400	23840	---	---	---	---	---	---	24800	7590	17310

01412350 DELAWARE BAY AT SHIP JOHN SHOAL LIGHTHOUSE, N. J.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS AT 25°C), WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	19000	11300	15400	13500	4700	8270	15200	6860	11500	23300	16100	19700
2	17300	10700	14500	12100	5120	8540	15900	7690	12600	22200	14900	19400
3	16100	8770	13100	12400	4310	8250	18600	3410	12100	22500	14400	19000
4	17000	8990	13500	12500	6000	9010	16700	3090	9410	22100	14300	18000
5	22500	11700	16700	16900	6400	10000	26500	10900	18500	22400	14100	18900
6	20600	11700	16600	18400	8520	13200	27200	21400	24400	23500	12700	18900
7	20600	12000	16700	18300	10000	14400	29400	22200	25500	21900	13500	18000
8	20000	11600	16700	18700	12000	15000	30400	22600	26200	21900	13400	18400
9	18300	11300	16000	19500	13600	16300	31300	22500	27200	22700	14400	19200
10	20400	13000	16900	21400	12700	18000	30900	25400	28000	23300	14100	19100
11	21000	14500	18500	23000	15600	19600	30600	24800	27200	22700	15900	18400
12	22400	15700	19400	23100	18000	20400	29200	23500	26600	21600	14200	17900
13	20000	12700	17700	22400	17500	20100	28100	22100	25200	21000	13000	16800
14	19300	11300	15700	24200	18300	21300	27100	19200	24400	19400	11300	16300
15	21000	14400	17400	23500	16900	20100	27700	17500	---	20700	12400	16700
16	22100	15200	18900	22200	16200	19300	---	---	---	19300	11900	15400
17	21500	15800	19100	22100	16100	19400	---	---	---	17700	11700	14700
18	23000	15400	19500	23300	14900	19500	---	---	---	18000	11800	14900
19	21400	14000	18000	23500	16000	20200	---	---	---	17500	11400	14900
20	21500	12100	17900	20000	9420	15300	---	---	---	17300	10100	14500
21	22400	11900	18100	16000	8070	12400	22600	17000	---	18200	11100	14900
22	22500	13600	19100	16700	8670	13300	26400	17700	22000	20100	12400	15500
23	23200	14300	19000	17900	6650	13100	26400	18600	22400	20000	12300	15700
24	24300	16300	20300	18700	8020	14300	25100	18400	21900	20400	11400	15500
25	21600	13300	17600	17100	10000	14000	26200	18400	21400	20100	13400	16200
26	16200	5160	11000	15500	6040	10900	24300	16700	20500	20700	13100	16700
27	13600	4340	8060	16500	6740	10700	25700	16100	20300	20000	12400	16300
28	13500	4530	8480	18200	8740	12900	24200	15600	21100	18600	13500	16200
29	---	---	---	19700	10100	14900	24000	15400	20000	20100	12200	16100
30	---	---	---	20400	9960	15000	24000	16100	20500	20100	12400	16500
31	---	---	---	14900	6400	11400	---	---	---	19300	12500	16100
MONTH	24300	4340	16480	24200	4310	14830	31300	3090	---	23500	10100	16990

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	18000	10800	15100	21900	13100	16700	21200	10900	16200	26000	21900	24300
2	17400	8240	13900	22500	9810	---	23000	10900	17700	25700	20800	23400
3	20900	9250	15000	---	---	---	23900	13700	19300	25900	20100	22800
4	20800	10600	15800	---	---	---	25100	15400	20600	26200	21300	23500
5	24300	11700	18300	---	---	---	25400	18800	22200	27100	21200	23500
6	23000	15700	19600	---	---	---	25700	19200	22700	25200	20900	23100
7	21800	15000	18800	---	---	---	28100	20100	23500	26400	19900	23100
8	25700	14600	19000	---	---	---	27600	19100	23300	26500	16300	23200
9	26000	15900	20200	---	---	---	27400	20000	23400	26000	19900	22900
10	24000	16200	20500	---	---	---	26900	19600	23300	25900	20700	23200
11	25200	15600	19500	---	---	---	25900	20400	23400	25100	20300	22300
12	23500	14100	18000	---	---	---	26000	21000	23500	23100	18600	21200
13	19500	13000	16600	---	---	---	25900	21000	23600	23500	16900	20400
14	19500	12400	16100	---	---	---	25400	19000	22600	24200	18500	21100
15	19000	12300	15700	---	---	---	24500	18600	---	25600	18600	21700
16	17100	11300	14600	---	---	---	---	---	---	24900	19200	22100
17	16800	11100	14100	---	---	---	---	---	---	24800	19200	22200
18	17300	9800	14100	---	---	---	---	---	---	26200	20300	23200
19	18800	10600	14100	---	---	---	---	---	---	25100	21000	23100
20	20300	10400	13900	---	---	---	---	---	---	23900	19300	22500
21	20300	11300	15100	---	---	---	---	---	---	24600	19300	22200
22	19300	11600	15400	---	---	---	---	---	---	24500	20600	22700
23	18000	10700	14300	18400	9810	---	---	---	---	24300	19800	22400
24	16600	11800	13900	17600	9460	13700	---	---	---	24000	18900	21800
25	17900	11600	14700	17100	9250	13200	---	---	---	23000	17800	20500
26	20100	12200	16100	15600	9800	13100	---	---	---	21400	13500	18500
27	19600	12000	16400	18500	10400	14500	---	---	---	19400	10300	14500
28	20100	11800	16300	18400	9020	14200	---	---	---	18700	7190	12400
29	19500	12500	16300	18400	9630	14500	24200	18300	---	19300	6980	13200
30	20000	14100	16800	19400	10600	15000	23800	18400	21300	19700	9220	14600
31	---	---	---	19500	12100	15500	26700	20800	23400	---	---	---
MONTH	26000	8240	16270	---	---	---	---	---	---	27100	6980	21190

01412350 DELAWARE BAY AT SHIP JOHN SHOAL LIGHTHOUSE, N. J.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	20.5	20.0	20.0	15.0	14.0	14.5	---	---	---	5.5	5.0	5.0
2	20.0	19.0	19.5	15.0	14.5	14.5	---	---	---	5.0	4.5	5.0
3	19.0	18.0	18.0	15.0	14.5	15.0	---	---	---	5.0	4.0	4.5
4	18.0	16.5	17.0	15.0	15.0	15.0	---	---	---	5.0	4.5	5.0
5	17.0	16.5	16.5	15.0	15.0	15.0	---	---	---	5.0	4.5	4.5
6	17.0	16.5	16.5	15.0	15.0	15.0	---	---	---	4.5	4.5	4.5
7	17.0	16.5	16.5	15.0	14.5	14.5	---	---	---	5.0	4.5	4.5
8	16.5	16.5	16.5	14.5	13.5	14.0	---	---	---	5.0	4.5	5.0
9	16.5	16.0	16.5	13.5	13.5	13.5	---	---	---	5.0	5.0	5.0
10	17.0	16.0	16.5	13.5	13.0	13.5	---	---	---	5.5	5.0	5.0
11	17.0	16.0	16.5	13.0	13.0	---	---	---	---	5.5	5.0	5.5
12	17.0	16.5	16.5	---	---	---	6.0	5.5	---	6.0	5.5	5.5
13	17.0	16.5	17.0	---	---	---	6.0	5.5	5.5	5.5	5.5	5.5
14	17.0	16.5	17.0	---	---	---	6.0	5.5	5.5	5.5	4.5	5.0
15	17.0	17.0	17.0	---	---	---	5.5	5.0	5.5	4.5	4.0	4.5
16	17.0	16.5	17.0	---	---	---	6.0	5.5	5.5	4.5	4.0	4.0
17	17.0	16.5	16.5	---	---	---	6.0	5.5	6.0	4.0	3.5	4.0
18	16.5	16.0	16.5	---	---	---	6.0	5.5	5.5	3.5	3.5	3.5
19	16.0	15.0	15.5	---	---	---	5.5	5.0	5.5	4.0	3.5	3.5
20	15.0	14.5	14.5	---	---	---	5.5	5.0	5.0	4.0	3.0	3.5
21	14.0	13.0	13.5	---	---	---	5.5	5.0	5.5	3.0	3.0	3.0
22	13.0	12.0	13.0	---	---	---	5.5	5.0	5.0	3.5	3.0	3.0
23	13.0	13.0	13.0	---	---	---	5.5	5.0	5.0	3.5	3.0	3.0
24	13.0	13.0	13.0	---	---	---	6.0	5.0	5.5	4.0	3.0	3.5
25	13.5	13.0	13.0	---	---	---	5.5	5.0	5.5	4.0	3.5	4.0
26	13.5	13.0	13.0	---	---	---	5.5	5.0	5.0	4.0	4.0	4.0
27	13.5	13.0	13.0	8.0	8.0	---	5.0	5.0	5.0	4.0	3.5	4.0
28	13.5	13.0	13.0	8.0	8.0	---	5.5	5.0	5.0	4.0	4.0	4.0
29	13.5	13.5	13.5	---	---	---	5.0	5.0	5.0	4.5	4.0	4.0
30	14.0	13.5	13.5	---	---	---	5.5	5.0	5.0	4.5	3.0	4.5
31	14.5	13.5	14.0	---	---	---	5.5	5.0	5.0	4.5	3.0	4.0
MONTH	20.5	12.0	15.5	---	---	---	---	---	---	6.0	3.0	4.5

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	4.5	4.0	4.0	6.0	5.5	5.5	8.0	7.0	8.0	13.0	13.0	13.0
2	4.0	4.0	4.0	5.5	5.0	5.5	8.0	8.0	8.0	13.0	13.0	13.0
3	4.0	3.5	3.5	5.0	5.0	5.0	8.5	8.0	8.0	13.5	13.0	13.0
4	3.5	3.0	3.0	5.0	4.5	5.0	8.0	7.0	8.0	13.5	13.0	13.0
5	3.0	3.0	3.0	5.5	3.5	4.5	7.0	6.0	6.5	13.5	13.0	13.0
6	3.5	3.0	3.5	5.5	4.5	5.0	6.5	5.5	6.0	14.5	13.0	13.5
7	3.5	3.0	3.5	5.5	5.0	5.5	6.5	5.5	6.0	14.5	13.5	14.0
8	3.0	3.0	3.0	5.5	5.0	5.5	6.5	6.0	6.5	15.0	13.5	14.5
9	3.0	3.0	3.0	5.0	4.5	4.5	7.0	6.5	6.5	15.5	14.5	14.5
10	3.0	3.0	3.0	4.5	4.5	4.5	7.0	6.5	6.5	15.5	14.5	15.0
11	3.0	3.0	3.0	4.5	4.5	4.5	8.0	6.5	7.0	15.5	15.0	15.0
12	3.0	3.0	3.0	4.5	4.5	4.5	8.0	7.0	7.5	16.5	15.5	16.0
13	3.0	2.0	3.0	5.0	4.5	5.0	8.0	7.0	7.5	17.0	16.0	16.5
14	3.0	2.0	2.0	5.0	4.5	4.5	8.5	8.0	8.0	18.0	16.5	17.0
15	3.0	1.5	2.0	5.0	4.5	5.0	8.0	8.0	---	18.0	17.0	17.5
16	3.0	2.0	2.5	5.0	4.5	5.0	---	---	---	18.5	18.0	18.0
17	3.0	3.0	3.0	6.0	5.0	5.0	---	---	---	18.5	18.0	18.0
18	3.0	3.0	3.0	5.5	5.0	5.0	---	---	---	18.5	18.0	18.5
19	3.5	3.0	3.0	6.0	5.5	6.0	---	---	---	19.5	18.0	18.5
20	4.5	3.0	3.5	6.5	6.0	6.0	---	---	---	20.5	18.5	19.5
21	4.0	3.5	4.0	7.0	6.0	6.5	10.5	10.0	---	20.5	19.5	20.0
22	5.0	4.0	4.0	8.0	6.5	7.0	11.0	10.0	10.5	21.0	20.0	20.0
23	4.5	4.0	4.5	8.0	7.0	7.5	11.0	10.0	10.5	21.5	20.5	21.0
24	5.0	4.5	4.5	8.0	8.0	8.0	11.0	10.5	11.0	22.0	21.0	21.5
25	5.0	5.0	5.0	8.0	8.0	8.0	12.0	11.5	11.5	22.0	21.0	21.5
26	5.5	5.0	5.0	8.0	8.0	8.0	12.0	11.5	11.5	21.5	20.5	21.0
27	5.5	5.0	5.5	8.0	7.0	8.0	12.0	11.5	12.0	22.0	21.0	21.5
28	6.0	5.0	5.5	8.0	6.5	7.0	13.0	12.0	12.0	23.0	21.5	22.0
29	---	---	---	8.0	7.0	7.5	13.0	12.0	12.5	23.0	21.5	22.0
30	---	---	---	8.0	7.0	7.5	13.0	12.0	12.5	23.0	21.5	22.0
31	---	---	---	8.0	7.0	7.5	---	---	---	23.5	22.0	22.5
MONTH	6.0	1.5	3.5	8.0	3.5	6.0	13.0	5.5	---	23.5	13.0	17.5

01412350 DELAWARE BAY AT SHIP JOHN SHOAL LIGHTHOUSE, N. J.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	23.5	23.0	23.0	25.0	24.0	24.5	28.0	26.5	27.5	24.5	23.5	24.0
2	23.5	23.0	23.0	25.0	24.0	---	28.5	26.5	27.5	24.5	23.0	23.5
3	24.0	23.0	23.5	---	---	---	29.0	26.5	28.0	24.0	23.0	23.5
4	23.5	23.0	23.0	---	---	---	28.5	26.5	28.0	23.5	23.0	23.0
5	23.5	23.0	23.0	---	---	---	28.5	27.0	28.0	23.5	23.0	23.0
6	23.5	23.0	23.0	---	---	---	28.0	26.5	28.0	23.5	23.0	23.5
7	23.0	22.0	23.0	---	---	---	27.0	26.0	26.5	23.5	23.0	23.0
8	22.0	21.0	22.0	---	---	---	26.0	25.5	26.0	23.5	23.0	---
9	23.0	21.0	21.5	---	---	---	25.5	25.5	26.0	23.5	23.0	---
10	22.0	21.0	21.5	---	---	---	26.5	25.5	26.0	23.5	23.0	23.0
11	22.0	21.0	21.5	---	---	---	26.5	26.0	26.0	23.0	22.0	22.5
12	21.5	21.0	21.5	---	---	---	26.5	26.0	26.0	23.0	22.0	22.5
13	23.0	21.0	22.0	---	---	---	27.0	26.0	26.5	23.0	21.0	22.0
14	23.0	21.5	22.5	---	---	---	26.5	26.0	26.5	22.0	20.0	21.0
15	23.0	22.0	23.0	---	---	---	26.5	26.5	---	21.0	20.0	20.5
16	23.5	23.0	23.5	---	---	---	---	---	---	21.0	20.0	20.0
17	24.0	23.5	23.5	---	---	---	---	---	---	21.0	20.0	---
18	25.0	23.5	24.0	---	---	---	---	---	---	20.5	20.0	20.0
19	25.5	24.0	24.5	---	---	---	---	---	---	20.5	20.0	20.0
20	25.5	24.5	25.0	---	---	---	---	---	---	20.5	20.0	---
21	26.0	24.5	25.0	---	---	---	---	---	---	21.0	20.0	---
22	25.0	24.5	24.5	---	---	---	---	---	---	21.0	20.0	20.5
23	26.0	24.5	25.0	28.5	28.0	---	---	---	---	20.5	19.5	20.0
24	26.0	25.0	25.5	28.0	28.0	28.0	---	---	---	20.5	19.5	20.0
25	26.5	25.5	26.0	28.0	28.0	28.0	---	---	---	20.5	19.5	20.0
26	26.0	25.5	25.5	28.0	27.0	27.5	---	---	---	20.5	20.0	---
27	25.5	25.0	25.0	28.0	27.0	27.0	---	---	---	20.5	20.0	---
28	26.0	25.0	25.0	28.0	26.5	27.0	---	---	---	20.5	19.5	20.0
29	26.0	25.0	25.5	28.0	26.5	27.0	26.5	25.5	---	20.5	19.5	20.0
30	25.5	25.0	25.5	28.0	26.5	27.0	26.0	25.0	25.5	21.0	19.5	20.0
31	---	---	---	28.5	26.5	27.0	26.0	24.0	25.0	---	---	---
MONTH	26.5	21.0	23.5	---	---	---	---	---	---	24.5	19.5	---
YEAR	29.0	1.5	13.5									

COHANSEY RIVER BASIN

01412400 COHANSEY RIVER AT SEELEY, N. J.

LOCATION.--Lat 39°28'21", long 75°15'21", Cumberland County, at bridge on Silver Lake Road, 2.6 mi (4.2 km) east of Shiloh 1.5 mi (2.4 km) south of Hands Pond, 4.1 mi (6.6 km) north of Bridgeton, and 22.5 mi (36.2 km) upstream from mouth.

DRAINAGE AREA.--28.0 mi² (72.5 km²).

PERIOD OF RECORD.--Chemical analyses: May to September 1975.

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	DIS-SOLVED OXYGEN (MG/L)	BIO-CHEM-ICAL OXYGEN DEMAND 5 DAY (MG/L)	FECAL COLI-FORM (EC BROTH) (MPN)	FECAL COLI-FORM (COL. PER 100 ML)	TUR-BID-ITY (JTU)	COLOR (PLAT-INUM-COBALT UNITS)	TOTAL ORGANIC NITRO-GEN (N) (MG/L)
MAY 28...	0950	19.7	216	6.1	7.7	2.3	540	340	15	20	.03
JUNE 10...	1055	18.0	151	6.7	7.6	2.5	920	580	70	100	.67
JULY 16...	1115	22.3	--	6.2	7.1	1.9	>2400	2760	200	25	1.8
AUG. 14...	1315	23.5	275	6.8	7.7	4.9	1400	460	3	7	.70
SEP. 09...	1315	20.5	270	6.4	8.3	.9	--	184	2	4	.33

DATE	AMMONIA NITRO-GEN (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	TOTAL ORTHO PHOS-PHORUS (P) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	CAR-BONATE (CO3) (MG/L)	BICAR-BONATE (HCO3) (MG/L)
MAY 28...	.20	.09	3.9	.23	4.2	.21	.02	5.2	16	0	20
JUNE 10...	.15	.09	3.4	.82	4.3	.33	.04	6.9	16	0	19
JULY 16...	.17	.02	.80	2.0	2.8	.05	.21	12	9	0	11
AUG. 14...	.09	.03	3.3	.79	4.1	.04	.03	5.1	21	0	25
SEP. 09...	.03	.04	4.0	.36	4.4	.03	.01	3.7	17	0	21

DATE	CARBON DIOXIDE (CO2) (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	TOTAL NON-FILT-RABLE RESIDUE (MG/L)
MAY 28...	--	49	33	9.3	6.3	17	5.3	32	19	139	32
JUNE 10...	6.1	39	24	9.0	4.1	18	5.1	33	19	152	96
JULY 16...	11	23	14	5.2	2.5	5.9	4.4	12	7.3	91	156
AUG. 14...	6.3	59	38	12	7.0	23	4.8	42	19	178	20
SEP. 09...	--	58	41	11	7.5	22	4.7	39	20	175	3

01413014 COHANSEY RIVER AT OUTLET SUNSET LAKE AT BRIDGETON, N. J.

LOCATION.--Lat 39°26'44", long 75°14'16", Cumberland County, at bridge on Park Drive, at outlet of Sunset Lake, 1.2 mi (1.9 km) north of the post office building in Bridgeton, and 20.7 mi (32.3 km) upstream from mouth.

DRAINAGE AREA.--45.7 mi² (118.4 km²).

PERIOD OF RECORD.--Chemical analyses: May to September 1975.

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	DIS-SOLVED OXYGEN (MG/L)	BIO-CHEM-ICAL OXYGEN DEMAND 5 DAY (MG/L)	FECAL COLI-FORM (EC BROTH) (MPN)	FECAL COLI-FORM (COL. PER 100 ML)	TUR-BID-ITY (JTU)	COLOR (PLAT-INUM-COBALT UNITS)	TOTAL ORGANIC NITRO-GEN (N) (MG/L)
MAY 20...	1050	22.7	160	6.1	8.9	2.7	33	74	21	45	.64
JUNE 10...	1155	20.0	149	6.0	8.0	2.3	240	320	110	55	.68
JULY 16...	1210	23.4	--	6.4	6.9	1.4	1600	5400	100	25	1.1

DATE	AMMONIA NITRO-GEN (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	TOTAL ORTHO PHOS-PHORUS (P) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	CAR-BONATE (CO3) (MG/L)	BICAR-BONATE (HCO3) (MG/L)
MAY 20...	.08	.05	2.8	.72	3.5	.10	.06	6.4	--	0	--
JUNE 10...	.25	.07	2.2	.93	3.2	.41	.03	9.0	12	0	15
JULY 16...	.17	.01	.67	1.3	2.0	.81	.23	9.3	9	0	11

DATE	CARBON DIOXIDE (CO2) (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	TOTAL NON-FILT-RABLE RESIDUE (MG/L)
MAY 20...	--	42	--	8.1	5.3	11	4.2	23	17	114	20
JUNE 10...	3.0	32	20	7.2	3.5	9.3	4.6	10	15	104	90
JULY 16...	7.0	21	12	4.8	2.3	4.1	4.4	9.0	7.1	85	202

CONANSEY RIVER BASIN

01413015 CONANSEY RIVER AT BRIDGETON, N. J.

LOCATION.--Lat 39°25'54", long 75°14'11", Cumberland County, at bridge at Washington Street, 1.3 mi (2.1 km) downstream from Sunset Lake, 0.3 mi (0.5 km) northwest of post office building in Bridgeton, and 18.6 mi (29.9 km) upstream from mouth.

DRAINAGE AREA.--47.3 mi² (122.5 km²).

PERIOD OF RECORD.--Chemical analyses: May to September 1975.

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	DIS-SOLVED OXYGEN (MG/L)	BIO-CHEM-ICAL OXYGEN DEMAND 5 DAY (MG/L)	FECAL COLI-FORM (EC BROTH) (MPN)	FECAL COLI-FORM (COL. PER 100 ML)	TUR-BID-ITY (JTU)	COLOR (PLAT-INUM-COBALT UNITS)	TOTAL ORGANIC NITRO-GEN (N) (MG/L)
MAY 28...	1130	21.9	187	6.2	5.9	3.0	920	1400	15	12	.79
JUNE 10...	1230	20.7	226	6.5	3.7	5.6	1700	1400	30	26	.81
JULY 16...	1310	24.5	--	6.4	6.6	2.2	3500	3900	190	180	.60
AUG. 14...	1115	22.0	222	6.8	6.7	3.5	3500	1520	15	18	.68
SEP. 09...	1219	20.5	259	6.7	4.8	5.3	--	16000	8	5	.88

DATE	AMMONIA NITRO-GEN (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	TOTAL ORTHO PHOS-PHORUS (P) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	CAR-BONATE (CO3) (MG/L)	BICAR-BONATE (HCO3) (MG/L)
MAY 28...	.21	.04	2.3	1.0	3.3	.23	.02	6.6	20	0	24
JUNE 10...	.39	.07	2.6	1.2	3.9	.40	.05	13	22	0	27
JULY 16...	.30	.04	.95	.90	2.0	.70	.25	11	12	0	15
AUG. 14...	.16	.03	3.2	.84	4.0	.04	.03	5.2	19	0	23
SEP. 09...	.09	.03	4.0	.97	5.0	.26	.04	6.4	34	0	42

DATE	CARBON DIOXIDE (CO2) (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	TOTAL NON-FILT-RABLE RESIDUE (MG/L)
MAY 28...	24	52	32	14	4.1	10	3.1	23	18	120	45
JUNE 10...	14	38	16	8.0	4.3	26	5.1	37	19	143	75
JULY 16...	9.6	29	17	7.5	2.5	5.1	4.5	--	--	--	182
AUG. 14...	5.8	55	36	12	6.0	15	4.7	25	17	141	40
SEP. 09...	13	52	17	10	6.5	23	4.5	37	19	162	12

01440000 FLAT BROOK NEAR FLATBROOKVILLE, N. J.

LOCATION.--Lat 41°06'24", long 74°57'09", Sussex County, at gaging station 1 mi (1.6 km) upstream from Flatbrookville, and 1.5 mi (2.4 km) upstream from mouth.

DRAINAGE AREA.--65.1 mi² (169 km²).

PERIOD OF RECORD.--Chemical analyses: Water years 1963-72 (partial-record station), October 1972 to September 1975.

REMARKS.--Miscellaneous storm sediment samples collected during water years 1968-69, 71-75.

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	TEMPERATURE (DEG C)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	DISSOLVED OXYGEN (MG/L)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L)	IMMEDIATE COLIFORM (COL. PER 100 ML)	FECAL COLIFORM (EC BROTH) (MPN)	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)	TURBIDITY (JTU)
OCT. 16...	1345	48	11.2	171	8.3	10.4	2.0	620	--	176	292	--
NOV. 19...	1400	E80	5.5	132	8.6	12.0	1.6	16	--	8	12	--
MAR. 25...	1000	257	6.0	115	7.8	13.4	1.2	--	240	15	--	1
APR. 17...	1050	114	8.2	145	8.1	12.4	2.3	--	<2	6	--	1
MAY 07...	0905	315	9.0	109	7.9	10.7	2.0	--	350	74	--	4
JUNE 04...	0815	79	14.0	160	8.1	9.0	2.0	--	130	126	--	1
JULY 09...	1015	24	21.2	197	7.9	8.5	.6	--	33	72	--	1
AUG. 12...	1000	26	19.0	199	7.9	10.6	.9	--	130	--	--	0
SEP. 09...	1000	30	16.5	220	--	10.4	.6	--	--	98	--	0

DATE	COLOR (PLATINUM-COBALT UNITS)	TOTAL ORGANIC NITROGEN (N) (MG/L)	AMMONIA NITROGEN (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL ORTHO PHOSPHORUS (P) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)	ALKALINITY AS CACO3 (MG/L)	CARBONATE (CO3) (MG/L)
OCT. 16...	--	--	--	--	--	--	--	--	--	--	--	--
NOV. 19...	--	.06	.11	.00	.07	.17	.24	.01	.01	3.4	--	--
MAR. 25...	16	.13	.00	.00	.11	.13	.24	.01	.00	4.3	33	0
APR. 17...	6	.10	.02	.01	.09	.12	.22	.01	.00	3.7	46	0
MAY 07...	21	.34	.01	.01	.12	.35	.48	.02	.00	7.2	28	0
JUNE 04...	7	.23	.00	.01	.17	.23	.41	.02	.01	7.6	53	0
JULY 09...	3	.16	.00	.01	.07	.16	.24	.03	.01	3.1	75	0
AUG. 12...	6	.19	.00	.01	.03	.19	.23	.01	.01	5.7	68	0
SEP. 09...	3	.19	.00	.01	.03	.19	.23	.01	.01	6.4	75	--

DATE	BICARBONATE (HCO3) (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	TOTAL NONFILTRABLE RESIDUE (MG/L)
OCT. 16...	--	--	--	--	--	--	--	--	--	--	--	--
NOV. 19...	--	--	--	--	--	--	--	--	--	--	--	--
MAR. 25...	40	1.0	44	12	13	2.9	3.0	.5	5.7	13	71	8
APR. 17...	56	.7	64	18	21	2.9	3.9	.8	7.0	15	106	2
MAY 07...	34	.7	42	14	13	2.4	2.6	.6	4.2	12	70	10
JUNE 04...	64	.8	71	18	21	4.5	3.4	.6	4.7	13	92	4
JULY 09...	91	1.8	91	17	26	6.4	4.4	.7	10	21	133	1
AUG. 12...	83	1.7	88	19	25	6.1	3.9	.7	5.6	16	122	2
SEP. 09...	92	--	97	22	26	7.9	4.4	.8	8.3	19	139	4

01440000 FLAT BROOK NEAR FLATBROOKVILLE, N. J.--Continued

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	TEMPERATURE (DEG C)	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)
OCT. 22...	1450	6.4	62	0	.06
JAN. 13...	1215	--	350	6	5.7
FEB. 25...	1445	3.3	1460	31	122
APR. 03...	1415	6.7	550	45	67

01440000 DELAWARE RIVER NEAR EAST STROUDSBURG, PA. (NEAR DUNNFIELD, N. J.)

LOCATION.--Lat 41°02'40", long 75°01'42", Monroe County, water-quality recorder on right bank opposite Poxono Island, 0.1 mi (0.2 km) upstream from mouth of Vancampens Brook, and 4.4 mi (7.0 km) northeast of East Stroudsburg.

DRAINAGE AREA.--3,830 mi² (9,920 km²), approximately.

PERIOD OF RECORD.--Chemical analyses: October 1966 to September 1975.
Water temperatures: October 1966 to September 1975.

EXTREMES.--1974-75:
Dissolved oxygen: Maximum, 15.7 mg/l Mar. 11; minimum, 6.7 mg/l July 22, 23.
Water temperatures: Maximum, 29.5°C Aug. 3.
Period of record:
Specific conductance: Maximum, 222 micromhos Jan. 27, 1972; minimum, 44 micromhos Dec. 9, 1969.
Dissolved oxygen: Maximum, 18.4 mg/l Feb. 28, 1973; minimum, 6.0 mg/l Sept. 22, 1967, Aug. 15, 1971 and Aug. 24, 1974.
Water temperatures: Maximum, 29.5°C Aug. 3, 1975; minimum, freezing point on many days during winter months.
pH: Maximum, 7.5 Mar. 2-5, 1973; minimum, 6.6 Jan. 29, 1973.

REMARKS.--Missing continuous water-quality records are the result of malfunction of sensor or sampling mechanism.

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	TEMPERATURE (DEG C)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	DISSOLVED OXYGEN (MG/L)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L)	CHEMICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)	CHLOROPHYLL A (UG/L)
OCT.											
09...	1430	3770	12.0	85	6.2	11.0	2.0	6	--	--	1.90
17...	0830	3350	11.5	110	7.1	9.6	2.4	7	35	80	1.90
23...	1230	3920	7.0	105	--	12.3	1.6	E6	--	--	2.00
NOV.											
06...	1110	1700	12.5	90	--	9.0	1.4	4	--	--	1.30
20...	1055	E6400	6.0	90	--	9.0	2.0	4	E33	E17	3.00
26...	1345	E6820	4.0	80	--	13.2	1.2	7	E23	E20	3.30
DEC.											
12...	1000	E19500	4.0	110	--	12.4	1.2	8	130	165	2.70
26...	1400	E6740	7.0	80	--	12.6	.4	6	E17	--	.000
JAN.											
02...	1200	E4670	3.5	75	--	13.7	1.4	8	E12	E6	3.00
15...	1130	E10600	2.0	61	--	13.6	1.4	8	30	E14	3.00
29...	1130	E11000	2.0	120	--	13.6	1.2	9	--	--	3.20
FEB.											
06...	1500	E7400	1.0	100	--	13.2	--	31	E13	7	.000
19...	1315	E6000	3.0	105	--	13.2	--	11	--	--	--
MAR.											
05...	1700	E9500	3.0	90	7.3	13.6	--	7	E8	E10	.400
13...	1400	E7000	8.0	100	6.2	12.7	--	200	E13	E8	.500
26...	1230	E19000	5.5	80	7.5	13.5	1.1	9	--	--	.000
APR.											
09...	1130	E12000	4.5	65	--	12.6	--	15	--	--	--
10...	1000	E7300	10.0	85	6.9	11.4	2.6	14	--	--	--
MAY											
02...	1030	E5100	11.0	90	6.8	10.0	3.0	8	--	--	--
14...	1125	E17600	15.0	60	--	9.4	4.2	13	120	50	1.60
23...	0900	E9200	18.5	140	7.1	8.7	6.0	22	E50	E70	23.0
JUNE											
06...	0830	E7300	20.0	100	7.1	8.2	9.1	16	220	160	--
19...	0900	E8000	22.0	75	7.1	9.2	9.3	10	E60	160	3.40
26...	1000	E3300	24.0	110	7.2	8.3	.9	8	E27	140	--
JULY											
11...	0910	E2900	24.0	105	7.3	7.8	1.9	10	80	--	2.10
24...	1200	E5100	25.0	90	6.2	7.5	2.3	11	E42	E10	--
AUG.											
19...	1000	E2200	24.5	100	7.4	8.4	6.2	24	60	25	--
27...	1015	E3000	23.5	100	7.8	8.1	1.5	9	E9	73	--
SEP.											
05...	1100	E2900	16.5	290	6.0	7.3	--	10	40	15	--
26...	1200	E20600	15.0	80	6.1	9.1	2.3	52	39	15	--

01440090 DELAWARE RIVER NEAR EAST STROUDSBURG, PA. (NEAR DUNNFIELD, N. J.)--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	CHLORO-PHYLL B (UG/L)	TUR-BID-ITY (JTU)	TOTAL ORGANIC NITRO-GEN (N) (MG/L)	AMMONIA NITRO-GEN (N) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	SUS-PENDED SOLIDS (MG/L)
OCT.											
09...	2.00	1	.00	.33	.13	.31	.44	.02	15	46	2
17...	.000	2	.07	.20	.11	.27	.38	.01	4.0	50	1
23...	1.60	2	.12	.10	.05	.22	.27	.01	7.4	54	3
NOV.											
06...	.000	3	.22	.14	.09	.36	.45	.02	3.3	[illegible]	1
20...	1.00	2	.11	.04	.23	.15	.38	.01	3.0	43	4
26...	.000	1	.21	.14	.23	.35	.58	.02	3.0	40	3
DEC.											
12...	1.10	4	.18	.10	.32	.28	.60	.02	3.9	47	17
20...	5.20	1	.17	.02	.24	.19	.43	.01	3.3	36	2
JAN.											
02...	.400	3	.44	.06	.28	.50	.78	.02	5.2	51	1
15...	1.20	8	.22	.03	.34	.25	.59	.03	3.7	57	5
29...	1.70	2	.40	.05	.30	.45	.75	.02	1.9	42	8
FEB.											
06...	.000	3	.07	.03	.27	.10	.37	.01	4.2	46	2
19...	---	2	.03	.06	.27	.09	.36	.01	2.1	38	1
MAR.											
05...	1.20	2	.20	.05	.35	.25	.60	.03	---	56	5
13...	1.20	2	.75	.45	.53	1.2	1.7	.06	4.9	57	4
26...	.000	6	.08	.08	.33	.16	.49	.02	2.2	69	5
APR.											
09...	---	11	.24	.01	.35	.25	.60	.03	2.3	47	11
18...	---	2	.48	.12	.42	.60	1.0	.03	4.0	85	2
MAY											
02...	---	1	.17	.03	.22	.20	.42	.01	1.6	46	9
14...	.000	6	.26	.09	.27	.35	.62	.05	2.9	98	15
23...	.000	1	1.1	.10	.29	1.2	1.5	.04	4.0	25	6
JUNE											
06...	---	3	.27	.02	.20	.29	.57	.06	4.9	55	4
19...	.000	2	.65	.21	.23	.86	1.1	.04	2.3	45	3
26...	---	6	.27	.01	.11	.28	.39	.04	14	54	1
JULY											
11...	.000	9	1.5	.00	.06	1.5	1.6	.04	5.0	58	1
24...	---	1	.31	.01	.28	.32	.60	.03	5.2	53	4
AUG.											
15...	---	3	.36	.29	.11	.65	.76	.04	4.4	71	1
27...	---	3	.06	.02	.35	.08	.43	.03	4.9	72	3
SEP.											
05...	---	1	.34	.01	.19	.35	.54	.03	4.2	102	1
26...	---	35	.50	.02	2.0	.52	2.5	.14	3.0	---	1

SPECIFIC CONDUCTANCE (MICROMHOS AT 25°C), WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1				---	---	---	111	109	110			
2				---	---	---	111	110	110			
3				---	---	---	111	110	111			
4				---	---	---	111	110	111			
5				---	---	---	111	110	111			
6				---	---	---	112	111	111			
7				---	---	---	112	111	111			
8				---	---	---	112	111	112			
9				---	---	---	112	111	111			
10				---	---	---	112	109	111			
11				---	---	---	114	108	110			
12				---	---	---	115	107	110			
13				---	---	---	108	107	108			
14				---	---	---	109	108	108			
15				---	---	---	109	107	108			
16				---	---	---	110	108	109			
17				---	---	---	110	108	109			
18				---	---	---	109	108	---			
19				---	---	---	109	108	---			
20				---	---	---	110	109	109			
21				112	109	---	110	108	109			
22				115	110	112	110	109	109			
23				116	112	114	110	109	110			
24				113	110	112	110	109	110			
25				113	110	112	110	109	110			
26				115	105	109	111	110	---			
27				107	105	106	---	---	---			
28				108	107	107	---	---	---			
29				109	107	108	---	---	---			
30				110	108	109	---	---	---			
31				---	---	---	---	---	---			
MONTH				---	---	---	115	107	---			

01440000 DELAWARE RIVER NEAR EAST STROUDSBURG, PA. (NEAR DUNNFIELD, N. J.)--Continued

SPECIFIC CONDUCTANCE (MICROMHOS AT 25°C), WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	114	99	106	101	97	98	101	92	95
2	---	---	---	100	98	99	102	98	100	91	86	88
3	---	---	---	106	100	101	108	101	104	88	85	87
4	---	---	---	104	100	102	107	104	106	95	88	90
5	---	---	---	108	103	105	105	96	100	95	88	92
6	---	---	---	112	105	108	104	99	102	95	92	93
7	---	---	---	113	101	110	102	99	101	99	95	97
8	---	---	---	114	111	113	99	93	96	105	98	100
9	---	---	---	116	114	115	94	92	93	105	102	103
10	90	85	---	119	115	117	96	92	94	103	97	100
11	92	88	90	118	107	111	102	96	99	100	98	99
12	94	91	93	108	103	106	103	100	102	101	98	99
13	94	87	91	109	106	107	103	99	101	102	98	100
14	86	80	83	109	100	106	105	102	103	103	101	102
15	81	80	80	102	97	100	107	102	105	103	100	102
16	86	81	84	101	99	100	108	106	107	104	99	101
17	89	85	87	99	96	97	109	107	108	104	101	103
18	93	89	90	101	96	99	108	107	108	108	105	106
19	96	92	93	100	99	99	113	107	110	106	104	105
20	97	95	96	103	99	101	113	112	113	106	104	105
21	99	96	97	105	101	103	113	104	109	103	100	101
22	103	99	101	105	99	101	105	103	104	99	97	98
23	105	103	104	108	95	98	106	103	104	95	92	93
24	108	105	106	95	92	93	104	103	103	94	86	91
25	113	107	109	93	85	89	---	---	---	84	74	79
26	114	110	112	87	82	83	---	---	---	83	62	69
27	113	110	111	91	83	87	103	100	---	63	62	62
28	115	112	113	95	91	93	99	97	98	68	63	66
29	115	108	111	96	94	95	102	100	101	71	67	69
30	113	109	111	98	95	96	103	101	102	76	71	73
31	---	---	---	100	98	99	103	98	101	---	---	---
MONTH	---	---	---	119	82	101	113	92	103	108	62	92

DISSOLVED OXYGEN (DO), IN MILLIGRAMS PER LITER, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1				---	---	---	---	---	---			
2				---	---	---	---	---	---			
3				---	---	---	12.6	11.9	---			
4				---	---	---	12.6	12.0	12.2			
5				---	---	---	13.1	12.3	12.8			
6				---	---	---	13.2	13.0	---			
7				---	---	---	---	---	---			
8				---	---	---	---	---	---			
9				---	---	---	---	---	---			
10				---	---	---	---	---	---			
11				---	---	---	---	---	---			
12				---	---	---	---	---	---			
13				---	---	---	---	---	---			
14				---	---	---	---	---	---			
15				---	---	---	---	---	---			
16				---	---	---	---	---	---			
17				---	---	---	---	---	---			
18				---	---	---	---	---	---			
19				---	---	---	12.5	11.4	---			
20				---	---	---	13.1	11.2	12.3			
21				10.8	9.8	---	13.0	12.0	12.5			
22				11.8	9.9	10.6	12.8	11.5	12.1			
23				13.7	11.8	12.5	12.9	11.5	12.6			
24				14.0	13.3	13.7	12.9	12.0	12.4			
25				13.6	12.6	13.1	12.2	11.5	11.8			
26				14.2	12.7	13.4	12.5	11.9	---			
27				---	---	---	---	---	---			
28				---	---	---	---	---	---			
29				---	---	---	---	---	---			
30				---	---	---	---	---	---			
31				---	---	---	---	---	---			
MONTH				---	---	---	---	---	---			

01440090 DELAWARE RIVER NEAR EAST STROUDSBURG, PA. (NEAR DUNNFIELD, N. J.)--Continued

DISSOLVED OXYGEN (DO), IN MILLIGRAMS PER LITER, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1				---	---	---	14.1	12.2	---	10.3	10.0	10.1
2				---	---	---	13.2	11.5	12.4	10.7	9.9	10.3
3				---	---	---	12.6	11.3	11.8	11.1	10.2	10.6
4				---	---	---	12.9	10.1	---	10.2	9.6	9.9
5				13.6	11.7	---	---	---	---	9.8	9.5	9.6
6				12.4	10.7	11.8	---	---	---	9.7	7.8	8.6
7				11.8	10.8	11.4	---	---	---	8.8	7.8	8.1
8				11.2	10.9	---	---	---	---	---	---	---
9				---	---	---	---	---	---	---	---	---
10				13.5	12.8	---	---	---	---	---	---	---
11				15.7	13.1	14.5	---	---	---	---	---	---
12				15.3	13.7	14.5	---	---	---	---	---	---
13				11.5	10.6	---	---	---	---	---	---	---
14				14.2	11.4	12.4	---	---	---	---	---	---
15				15.3	12.5	14.0	---	---	---	---	---	---
16				14.6	12.2	13.4	---	---	---	---	---	---
17				12.9	12.2	---	---	---	---	---	---	---
18				---	---	---	11.1	10.3	---	---	---	---
19				---	---	---	10.3	10.0	10.1	---	---	---
20				12.9	11.6	---	10.8	10.1	10.5	---	---	---
21				15.8	13.1	14.5	11.8	10.8	11.2	---	---	---
22				15.4	14.2	14.8	12.1	11.2	11.7	---	---	---
23				14.3	11.8	13.2	12.1	10.9	11.5	---	---	---
24				12.9	12.6	12.7	10.9	10.1	10.5	---	---	---
25				13.1	11.6	12.5	10.1	9.9	10.0	---	---	---
26				14.2	12.7	13.3	10.0	9.8	9.9	---	---	---
27				---	---	---	10.5	10.1	10.3	---	---	---
28				---	---	---	11.2	10.5	10.8	---	---	---
29				---	---	---	10.8	10.4	10.6	---	---	---
30				---	---	---	11.0	10.2	10.6	---	---	---
31				---	---	---	---	---	---	---	---	---
MONTH				---	---	---	---	---	---	---	---	---

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	8.9	8.0	8.4	8.6	7.5	8.1	8.1	7.4	7.8
2	---	---	---	8.7	7.6	8.1	8.6	7.2	7.8	8.2	7.7	8.0
3	---	---	---	8.5	7.5	7.8	8.7	7.0	7.8	8.3	7.7	8.0
4	---	---	---	8.3	7.1	7.7	8.1	6.9	7.4	9.3	8.0	8.5
5	---	---	---	8.9	7.4	8.1	8.1	6.7	7.4	9.5	8.9	9.3
6	---	---	---	8.0	7.2	---	7.2	6.8	6.9	9.1	8.6	8.9
7	---	---	---	---	---	---	7.9	6.8	7.4	9.4	8.6	8.9
8	---	---	---	---	---	---	8.4	8.0	8.2	9.3	8.3	8.7
9	---	---	---	---	---	---	8.8	8.3	8.5	9.2	8.1	8.7
10	---	---	---	---	---	---	8.7	8.0	8.4	9.4	8.6	8.9
11	---	---	---	8.5	7.7	---	8.4	7.5	8.0	9.3	8.7	9.0
12	---	---	---	8.3	7.4	7.9	8.2	7.3	7.8	8.8	8.5	8.6
13	---	---	---	8.3	7.4	7.8	8.3	7.1	7.6	9.3	8.6	9.0
14	---	---	---	8.5	7.5	8.0	8.1	7.0	7.5	10.1	9.2	9.6
15	---	---	---	8.3	7.7	8.0	9.1	7.0	8.0	10.3	9.6	9.9
16	---	---	---	8.3	7.6	7.9	8.0	7.5	7.7	10.1	9.6	9.9
17	---	---	---	8.2	7.4	7.8	8.4	7.5	7.9	9.9	9.3	9.6
18	9.3	8.4	---	8.1	7.2	7.7	8.9	7.9	8.4	10.0	9.2	9.5
19	9.3	8.4	8.8	7.9	7.1	7.5	9.2	8.2	8.6	9.4	8.9	9.2
20	8.8	7.5	---	8.2	7.1	7.6	9.0	8.0	8.4	9.5	8.8	9.1
21	8.8	8.1	---	8.0	7.1	7.5	9.2	8.0	8.4	9.5	8.7	9.0
22	9.1	8.3	---	7.3	6.7	7.0	8.8	7.7	8.2	9.5	8.6	9.0
23	---	---	---	7.7	6.7	7.2	9.1	7.9	8.4	8.8	8.5	8.6
24	---	---	---	7.7	7.1	7.4	8.2	7.8	8.0	8.9	8.4	8.6
25	---	---	---	7.9	6.9	7.4	---	---	---	9.2	8.9	9.0
26	9.0	7.9	---	8.5	7.8	8.1	---	---	---	9.3	9.1	9.2
27	8.9	7.9	8.4	8.9	8.2	8.5	8.1	7.9	---	9.4	9.1	9.2
28	9.4	7.9	8.5	9.0	8.2	8.6	8.6	7.6	8.0	9.4	9.0	9.2
29	9.3	8.1	8.6	8.9	8.2	8.5	8.5	7.4	7.9	9.5	9.2	9.4
30	9.4	8.0	8.7	9.1	8.2	8.6	7.9	7.2	7.5	9.6	9.4	9.5
31	---	---	---	8.8	8.0	8.4	7.5	7.1	7.3	---	---	---
MONTH	---	---	---	9.1	6.7	7.9	9.2	6.7	7.9	10.3	7.4	9.0

DELAWARE RIVER BASIN

01440090 DELAWARE RIVER NEAR EAST STROUDSBURG, PA. (NEAR DUNNFIELD, N. J.)--Continued

TEMPERATURE (°C), OF WATER, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1				---	---	---	2.0	1.5	1.5			
2				---	---	---	2.0	1.5	1.5			
3				---	---	---	3.0	1.5	2.0			
4				---	---	---	3.0	1.5	2.0			
5				---	---	---	2.0	1.5	1.5			
6				---	---	---	2.0	1.0	1.5			
7				---	---	---	1.5	0.5	1.0			
8				---	---	---	1.5	0.5	1.0			
9				---	---	---	2.0	0.5	1.5			
10				---	---	---	4.5	3.0	4.0			
11				---	---	---	4.5	4.0	4.0			
12				---	---	---	4.0	3.5	3.5			
13				---	---	---	4.5	4.0	4.5			
14				---	---	---	4.5	4.5	4.5			
15				---	---	---	4.5	4.0	4.5			
16				---	---	---	4.5	3.5	4.0			
17				---	---	---	4.0	3.5	3.5			
18				---	---	---	3.5	3.5	---			
19				---	---	---	3.5	3.5	---			
20				---	---	---	3.5	3.0	3.5			
21				7.0	6.5	---	3.5	3.5	3.5			
22				6.5	5.5	6.0	4.0	3.5	3.5			
23				5.5	4.5	5.0	3.5	3.5	3.5			
24				5.0	4.0	4.5	3.5	3.5	3.5			
25				5.0	4.5	4.5	3.5	3.5	3.5			
26				4.5	3.5	4.0	3.5	3.5	---			
27				3.5	2.0	3.0	---	---	---			
28				3.0	2.0	2.5	---	---	---			
29				3.0	2.0	2.5	---	---	---			
30				2.0	1.5	2.0	---	---	---			
31				---	---	---	---	---	---			
MONTH				---	---	---	4.5	0.5	---			

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1				---	---	---	6.0	4.5	5.0	11.0	10.5	[illegible]
2				---	---	---	7.0	5.5	6.0	12.0	10.0	11.0
3				---	---	---	6.5	5.5	6.0	13.0	10.5	11.5
4				---	---	---	5.5	4.0	4.5	12.0	11.5	12.0
5				3.5	2.0	---	3.5	3.5	3.5	13.5	11.5	12.5
6				4.0	3.0	3.5	3.5	3.0	3.5	13.0	12.0	12.0
7				4.0	3.5	4.0	4.0	3.0	3.5	13.5	11.5	12.5
8				4.5	4.0	---	4.5	3.5	4.0	---	---	---
9				---	---	---	5.5	4.0	4.5	---	---	---
10				---	---	---	6.0	5.0	5.5	---	---	---
11				---	---	---	7.0	5.5	6.0	---	---	---
12				---	---	---	7.0	6.5	6.5	---	---	---
13				---	---	---	6.5	6.0	6.5	---	---	---
14				---	---	---	8.0	6.0	6.5	---	---	---
15				---	---	---	7.0	6.5	7.0	---	---	---
16				---	---	---	8.5	6.5	7.5	---	---	---
17				---	---	---	10.0	8.0	9.0	---	---	---
18				---	---	---	10.5	[illegible]	9.5	---	---	---
19				---	---	---	10.5	10.0	10.5	---	---	---
20				5.5	5.0	---	10.5	10.0	10.0	---	---	---
21				5.0	4.0	4.5	10.0	9.0	9.5	---	---	---
22				4.5	4.0	4.5	10.0	8.5	9.5	---	---	---
23				6.0	4.5	5.0	10.5	8.5	10.0	---	---	---
24				5.5	5.0	5.0	10.5	10.0	10.5	---	---	---
25				6.0	5.0	5.5	11.5	10.5	11.0	---	---	---
26				5.5	5.0	5.0	11.5	10.5	11.0	---	---	---
27				5.0	4.0	4.5	11.0	10.5	10.5	---	---	---
28				4.5	3.5	4.0	10.5	9.5	10.0	---	---	---
29				4.0	4.0	4.0	10.5	10.0	10.0	---	---	---
30				5.0	4.0	4.5	11.5	9.5	10.5	---	---	---
31				5.0	4.0	4.5	---	---	---	---	---	---
MONTH				---	---	---	11.5	3.0	7.5	---	---	---

01440090 DELAWARE RIVER NEAR EAST STROUDSBURG, PA. (NEAR DUNNFIELD, N. J.)--Continued

TEMPERATURE (°C), OF WATER, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	24.0	22.0	23.0	27.0	25.5	26.0	20.5	18.5	19.5
2	---	---	---	24.0	22.0	23.0	28.5	26.5	27.5	19.5	18.5	19.0
3	---	---	---	24.0	23.0	23.5	29.5	27.0	28.0	20.0	18.5	19.0
4	---	---	---	24.0	22.0	23.5	28.5	26.5	27.5	19.5	18.5	19.0
5	---	---	---	25.0	23.0	24.0	28.0	26.0	27.0	20.5	19.0	19.5
6	---	---	---	25.0	23.5	24.0	26.5	24.0	25.5	20.5	19.5	20.0
7	---	---	---	25.5	24.0	24.5	24.0	21.5	23.0	21.5	19.5	20.5
8	---	---	---	26.0	24.5	25.0	21.5	21.0	21.0	21.5	20.5	21.0
9	---	---	---	25.5	24.0	25.0	22.0	20.5	21.5	21.5	20.0	20.5
10	18.5	17.0	---	25.5	23.5	24.5	23.0	21.0	22.0	20.5	19.5	20.0
11	18.5	17.0	18.0	25.0	24.0	24.5	23.5	22.0	23.0	19.5	19.0	19.0
12	18.0	17.0	18.0	24.0	23.5	24.0	25.0	23.0	24.0	19.5	18.5	19.0
13	19.0	17.0	18.0	23.5	23.0	23.0	25.5	24.0	24.5	18.5	17.0	18.0
14	19.0	17.0	18.5	22.0	22.0	22.0	25.5	24.5	25.0	18.0	16.5	17.0
15	19.5	18.0	18.5	23.0	21.5	22.5	25.5	24.0	24.5	17.0	16.0	16.5
16	19.5	19.0	19.0	24.0	22.0	23.5	24.5	23.0	23.5	16.5	16.0	16.0
17	20.0	19.0	19.5	25.0	23.5	24.0	23.0	22.0	22.5	18.0	16.0	16.5
18	21.5	19.5	20.5	25.5	24.5	25.0	23.5	21.5	22.5	17.0	16.5	17.0
19	22.0	21.0	21.5	25.0	25.0	25.0	23.5	21.5	22.5	17.0	17.0	17.0
20	23.5	21.5	22.5	25.0	24.0	24.5	24.0	22.0	23.0	18.5	17.0	18.0
21	23.0	21.5	22.5	25.5	24.0	25.0	23.5	22.0	22.5	19.5	18.5	19.0
22	23.5	21.5	22.5	25.5	24.5	25.0	23.5	22.0	23.0	19.0	18.5	18.5
23	24.5	21.5	23.0	25.0	23.5	24.5	23.5	21.5	22.5	18.5	18.0	18.5
24	25.0	23.5	24.5	25.5	24.0	24.5	22.0	21.5	22.0	18.0	16.5	17.0
25	25.0	24.0	24.5	25.5	24.0	25.0	---	---	---	16.5	15.5	16.0
26	24.0	23.5	24.0	24.5	23.5	24.0	---	---	---	15.5	14.5	15.0
27	23.5	22.0	23.0	24.0	22.0	23.5	24.0	23.5	---	15.0	14.5	15.0
28	22.0	21.5	22.0	24.5	23.0	24.0	24.0	23.0	23.5	16.0	14.5	15.0
29	23.0	21.5	22.0	25.0	23.5	24.5	23.5	22.0	23.0	15.5	14.5	15.0
30	24.0	22.0	23.0	25.0	23.5	24.5	23.0	22.0	22.5	15.5	15.0	15.0
31	---	---	---	25.5	24.0	25.0	21.5	20.5	21.0	---	---	---
MONTH	---	---	---	26.0	21.5	24.0	29.5	20.5	23.5	21.5	14.5	18.0

pH (UNITS), WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1							---	---	---			
2							---	---	---			
3							---	---	---			
4							---	---	---			
5							---	---	---			
6							---	---	---			
7							---	---	---			
8							---	---	---			
9							---	---	---			
10							---	---	---			
11							---	---	---			
12							---	---	---			
13							---	---	---			
14							---	---	---			
15							---	---	---			
16							---	---	---			
17							---	---	---			
18							---	---	---			
19							6.9	6.7	---			
20							6.7	6.6	6.7			
21							6.7	6.3	6.6			
22							6.7	6.6	6.6			
23							6.6	6.6	6.6			
24							6.7	6.6	6.6			
25							6.7	6.6	6.6			
26							6.6	6.6	---			
27							---	---	---			
28							---	---	---			
29							---	---	---			
30							---	---	---			
31							---	---	---			
MONTH							---	---	---			

01440090 DELAWARE RIVER NEAR EAST STROUDSBURG, PA. (NEAR DUNNFIELD, N. J.)--Continued

pH (UNITS), WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1				---	---	---	6.7	6.6	6.6	7.2	6.9	7.0
2				---	---	---	6.7	6.6	6.6	6.9	6.8	---
3				---	---	---	6.7	6.5	6.6	---	---	---
4				---	---	---	6.5	6.4	6.5	---	---	---
5				---	---	---	6.6	6.5	6.5	---	---	---
6				---	---	---	6.8	6.6	6.7	---	---	---
7				---	---	---	6.8	6.7	6.8	---	---	---
8				---	---	---	6.9	6.8	6.8	---	---	---
9				---	---	---	7.0	6.8	6.9	---	---	---
10				---	---	---	7.0	6.8	6.9	---	---	---
11				---	---	---	7.1	6.8	6.9	---	---	---
12				---	---	---	7.1	6.9	7.0	---	---	---
13				---	---	---	7.1	6.9	7.0	---	---	---
14				---	---	---	7.2	6.9	7.0	---	---	---
15				---	---	---	7.1	7.0	7.0	---	---	---
16				---	---	---	7.3	6.9	7.1	---	---	---
17				---	---	---	7.4	6.9	7.1	---	---	---
18				---	---	---	7.2	6.9	7.0	---	---	---
19				---	---	---	7.2	6.8	7.0	---	---	---
20				---	---	---	7.2	6.8	7.0	---	---	---
21				---	---	---	7.4	6.9	7.1	---	---	---
22				---	---	---	7.5	6.9	7.2	---	---	---
23				---	---	---	7.5	6.9	7.2	---	---	---
24				---	---	---	7.2	6.9	7.0	---	---	---
25				---	---	---	7.3	6.8	7.0	---	---	---
26				6.5	6.3	---	7.5	6.8	7.2	---	---	---
27				6.5	6.3	6.4	7.7	6.9	7.2	---	---	---
28				6.5	6.4	6.5	7.8	7.0	7.3	---	---	---
29				6.5	6.4	6.5	7.5	6.9	7.2	---	---	---
30				6.6	6.4	6.5	7.8	6.9	7.3	---	---	---
31				6.6	6.5	6.6	---	---	---	---	---	---
MONTH				---	---	---	7.8	6.4	7.0	---	---	---

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	8.3	6.8	7.5	6.6	6.4	---	6.7	6.5	6.6
2	---	---	---	8.3	7.5	7.9	---	---	---	6.8	6.6	6.7
3	---	---	---	8.1	7.3	7.6	---	---	---	7.1	6.6	6.8
4	---	---	---	8.1	7.1	7.6	8.7	7.4	8.0	7.4	6.7	7.0
5	---	---	---	8.5	7.1	7.8	8.3	7.0	7.6	7.9	6.9	7.4
6	---	---	---	8.5	7.1	7.8	7.3	6.9	7.1	7.6	7.0	7.2
7	---	---	---	8.9	7.1	7.9	7.0	6.8	6.9	8.1	6.8	7.3
8	---	---	---	8.6	7.2	8.0	7.2	6.9	7.1	8.1	6.7	7.3
9	---	---	---	8.8	7.6	8.1	7.6	6.9	7.2	7.9	6.8	7.3
10	7.4	7.1	---	8.7	7.3	8.0	7.6	7.0	7.3	8.0	7.0	7.4
11	7.6	7.0	7.3	8.3	7.2	7.8	8.0	7.0	7.4	7.4	7.0	7.2
12	7.3	7.0	7.1	7.5	7.0	7.3	8.2	7.0	7.6	7.2	6.9	7.1
13	7.3	6.9	7.1	7.3	6.9	7.0	8.5	7.2	7.7	7.3	6.9	7.1
14	7.1	6.9	7.0	7.1	6.8	6.9	8.6	7.1	7.8	7.9	7.0	7.3
15	7.2	6.9	7.0	7.1	6.7	6.9	8.4	7.2	7.7	8.0	7.1	7.4
16	7.2	7.0	7.1	7.2	6.7	6.9	7.3	6.9	7.1	7.7	7.1	7.4
17	7.5	7.0	7.2	7.4	6.6	6.9	7.4	6.9	7.1	7.8	7.0	7.3
18	7.7	7.1	7.3	8.1	6.7	7.2	8.0	7.0	7.4	7.1	6.9	---
19	7.4	7.1	7.3	7.6	6.9	7.3	8.3	7.2	7.7	---	---	---
20	7.7	7.1	7.4	7.9	6.9	7.2	8.4	7.3	7.9	---	---	---
21	7.9	7.2	7.5	7.7	6.7	7.2	8.2	7.1	7.6	---	---	---
22	8.3	7.2	7.7	7.1	6.6	6.9	8.0	6.8	7.3	---	---	---
23	8.6	7.4	7.9	7.2	6.5	6.8	8.0	6.7	7.3	---	---	---
24	8.6	7.4	7.9	7.2	6.6	6.9	7.1	6.6	6.8	---	---	---
25	8.5	7.3	7.8	6.7	6.4	6.6	---	---	---	---	---	---
26	8.1	7.2	7.6	6.6	6.1	6.3	---	---	---	---	---	---
27	7.5	6.8	7.2	6.8	6.1	6.4	7.9	7.3	---	---	---	---
28	7.3	6.4	6.7	7.1	6.2	6.6	8.1	7.0	7.4	---	---	---
29	7.2	6.3	6.7	7.2	6.3	6.7	8.3	7.0	7.5	---	---	---
30	7.5	6.4	7.0	7.4	6.3	6.8	7.6	6.9	7.1	---	---	---
31	---	---	---	7.4	6.3	6.9	6.9	6.7	6.8	---	---	---
MONTH	---	---	---	8.9	6.1	7.2	8.7	6.4	7.4	---	---	---

01442750 DELAWARE RIVER AT DUNNFIELD, N. J. (DELAWARE WATER GAP, PA.)

LOCATION.--Lat 40°58'40", long 75°08'10", Warren County, at bridge on Interstate Highway 80, 4.0 mi (6.4 km) downstream from gaging station, in Dunnfield.

DRAINAGE AREA.--4,150 mi² (10,749 km²), approximately.

PERIOD OF RECORD.--Chemical analyses: Water years 1965-71 (partial-record station), water years 1972-75.
Water temperatures: October 1966 to September 1975.
Sediment records: July 1964 to September 1975.

EXTREMES.--1974-75:
Water temperatures: Maximum daily, 29.0°C July 5; minimum daily, freezing point on several days during January and February.
Sediment concentrations: Maximum daily, 220 mg/l Feb. 25; minimum daily, 1 mg/l on many days.
Sediment discharge: Maximum daily, 37,200 tons Feb. 25; minimum daily, 5.4 tons Sept. 7.
Period of record:
Water temperatures: Maximum daily, 29.0°C July 5, 1975; minimum daily, freezing point on many days during winter months.
Sediment concentrations: Maximum daily, 640 mg/l June 30, 1973; minimum daily, less than 0.5 mg/l on many days.
Sediment discharge: Maximum daily, 165,000 tons June 30, 1973; minimum daily, less than 0.05 tons on many days.

REMARKS.--Records of discharge are given for 01440200 Delaware River below Tocks Island damsite, near Delaware Water Gap, Pa.

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	TEMPERATURE (DEG C)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	DISSOLVED OXYGEN (MG/L)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L)	IMMEDIATE COLIFORM (COL. PER 100 ML)	FECAL COLIFORM (EC BROTH) (MPN)	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)	TURBIDITY (JTU)
OCT. 16...	1300	2950	12.5	71	8.4	10.4	1.9	396	--	40	100	--
NOV. 19...	1300	E7050	8.0	70	8.3	13.0	.8	36	--	16	8	--
MAR. 25...	1115	E19000	9.5	58	7.4	12.4	1.6	--	240	27	--	1
APR. 17...	1240	E6900	9.2	58	7.7	12.4	1.2	--	42	0	--	1
MAY 07...	1030	E13100	12.4	61	7.8	10.2	2.1	--	130	6	--	5
JUNE 04...	1030	E4730	20.7	80	7.9	9.1	1.3	--	46	8	--	2
JULY 09...	1100	E2100	26.3	72	8.1	9.6	2.2	--	33	27	--	1
AUG. 12...	1045	E2500	21.5	82	7.6	8.6	3.5	--	13	--	--	1
SEP. 09...	1100	E2500	19.5	88	--	9.2	1.2	--	--	--	--	1

DATE	COLOR (PLATINUM-COBALT UNITS)	TOTAL ORGANIC NITROGEN (N) (MG/L)	AMMONIA NITROGEN (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL ORTHO PHOSPHORUS (P) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)	ALKALINITY AS CACO3 (MG/L)	CARBONATE (CO3) (MG/L)
OCT. 16...	--	--	--	--	--	--	--	--	--	--	--	--
NOV. 19...	--	.07	.11	.00	.23	.18	.41	.02	.01	7.4	--	--
MAR. 25...	8	.19	.01	.00	.35	.20	.55	.02	.00	4.0	8	0
APR. 17...	4	.14	.03	.01	.25	.17	.43	.02	.01	2.7	12	0
MAY 07...	9	.36	.00	.01	.21	.36	.58	.03	.01	6.4	10	0
JUNE 04...	6	.26	.00	.01	.23	.26	.50	.03	.01	6.5	13	0
JULY 09...	1	.26	.00	.01	.03	.26	.30	.04	.01	5.0	21	0
AUG. 12...	4	.31	.01	.01	.19	.32	.52	.03	.01	8.8	17	0
SEP. 09...	2	.46	.25	.14	1.7	.71	2.5	.06	.05	4.5	18	--

DATE	BICARBONATE (HCO3) (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	HARDNESS (CA,MG) (MG/L)	NON-CARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	TOTAL NON-FILTRABLE RESIDUE (MG/L)
OCT. 16...	--	--	--	--	--	--	--	--	--	--	--	--
NOV. 19...	--	--	--	--	--	--	--	--	--	--	--	--
MAR. 25...	10	.6	17	8	5.0	1.0	2.2	.8	3.9	9.4	31	10
APR. 17...	15	.5	26	14	9.2	.7	3.2	.6	4.4	8.0	41	8
MAY 07...	12	.3	28	11	6.5	1.0	2.2	.7	3.3	8.4	40	16
JUNE 04...	16	.3	26	13	8.0	1.5	2.6	.8	4.3	9.3	37	6
JULY 09...	26	.3	30	9	9.1	1.8	3.4	2.9	6.2	12	49	2
AUG. 12...	21	.8	30	12	9.2	1.6	2.8	.9	3.0	8.7	57	2
SEP. 09...	22	--	33	15	10	2.0	2.8	.9	4.2	8.9	123	6

01442750 DELAWARE AT DUNNFIELD, N. J. (DELAWARE WATER GAP)--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
(ONCE DAILY MEASUREMENT BETWEEN 0800 AND 1000)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	14.0	4.0	3.0	0.0	---	7.0	---	22.0	23.0	25.0	---
2	---	15.0	4.0	2.0	0.0	---	6.0	12.0	20.0	23.0	24.0	---
3	---	12.0	3.0	2.0	1.0	2.0	7.0	---	23.0	21.0	25.0	---
4	---	12.0	3.0	1.0	1.0	2.0	---	---	27.0	22.0	21.0	---
5	---	12.0	5.0	2.0	1.0	2.0	---	11.0	21.0	20.0	23.0	---
6	15.0	11.0	2.0	---	1.0	3.0	---	12.0	21.0	24.0	21.0	---
7	13.0	---	2.0	---	1.0	3.0	4.0	13.0	23.0	---	20.0	---
8	---	11.0	2.0	2.0	0.0	2.0	5.0	---	19.0	20.0	24.0	---
9	14.0	---	2.0	2.0	0.0	3.0	5.0	12.0	22.0	22.0	23.0	20.0
10	---	9.0	---	3.0	0.0	4.0	5.0	12.0	---	---	20.0	20.0
11	---	10.0	2.0	2.0	---	4.0	---	15.0	---	---	24.0	22.0
12	15.0	10.0	4.0	2.0	1.0	4.0	5.0	14.0	20.0	25.0	22.0	20.0
13	15.0	10.0	---	---	---	4.0	---	15.0	19.0	22.0	26.0	19.0
14	---	10.0	3.0	1.0	---	2.0	---	14.0	19.0	21.0	21.0	20.0
15	15.0	10.0	1.0	2.0	---	2.0	---	---	20.0	20.0	23.0	18.0
16	12.0	---	1.0	1.0	2.0	3.0	---	16.0	---	24.0	22.0	17.0
17	12.0	8.0	2.0	1.0	2.0	4.0	---	---	23.0	23.0	21.0	20.0
18	11.0	---	2.0	1.0	0.0	4.0	---	---	22.0	24.0	22.0	---
19	---	7.0	1.0	0.0	2.0	---	---	16.0	21.0	26.0	24.0	18.0
20	12.0	8.0	2.0	---	3.0	3.0	8.0	16.0	21.0	26.0	22.0	20.0
21	12.0	8.0	2.0	0.0	2.0	4.0	---	16.0	21.0	26.0	24.0	17.0
22	---	8.0	3.0	1.0	3.0	4.0	---	---	---	26.0	25.0	20.0
23	9.0	7.0	2.0	---	1.0	4.0	9.0	21.0	---	26.0	24.0	20.0
24	8.0	5.0	2.0	1.0	1.0	6.0	10.0	19.0	---	26.0	24.0	17.0
25	---	6.0	2.0	1.0	3.0	7.0	10.0	20.0	24.0	26.0	20.0	16.0
26	---	5.0	1.0	0.0	2.0	6.0	9.0	20.0	24.0	25.0	21.0	16.0
27	12.0	4.0	1.0	0.0	2.0	---	---	20.0	21.0	25.0	22.0	15.0
28	11.0	5.0	3.0	2.0	2.0	---	---	20.0	21.0	---	24.0	16.0
29	11.0	5.0	1.0	1.0	---	7.0	---	21.0	24.0	25.0	22.0	16.0
30	---	5.0	3.0	1.0	---	---	---	21.0	21.0	25.0	25.0	15.0
31	---	---	4.0	0.0	---	6.0	---	---	---	24.0	22.0	---
MONTH	---	8.5	2.5	1.5	1.5	4.0	---	---	22.0	24.0	23.0	---

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1974 TO SEPTEMB R 1975

DATE	TIME	TEMPER-ATURE (DEG C)	INSTAN-TANEOUS DIS-CHARGE (CFS)	SUS-PENDED SEDI-MENT (MG/L)	SUS-PENDED SEDI-MENT DIS-CHARGE (T/DAY)	SUS. SED. FALL DIAM. % FINER THAN .002 MM	SUS. SED. FALL DIAM. % FINER THAN .004 MM
DEC. 09...	1900	2.0	4400	110	1310	28	43
FEB. 25...	0830	2.0E	63200	141	24100	--	19

DATE	SUS. SED. FALL DIAM. % FINER THAN .008 MM	SUS. SED. FALL DIAM. % FINER THAN .016 MM	SUS. SED. FALL DIAM. % FINER THAN .031 MM	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM	SUS. SED. SIEVE DIAM. % FINER THAN .125 MM	SUS. SED. SIEVE DIAM. % FINER THAN .250 MM	SUS. SED. SIEVE DIAM. % FINER THAN .500 MM
DEC. 09...	59	74	85	95	100	--	--
FEB. 25...	27	55	58	84	95	99	100

01442750 DELAWARE AT DUNNFIELD, N. J. (DELAWARE WATER GAP)--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

	OCTOBER			NOVEMBER			DECEMBER		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	12000	14	454	2450	2	13	4670	1	13
2	9320	10	252	2380	2	13	5150	1	14
3	7390	7	148	2280	2	12	6460	3	52
4	6350	5	86	1940	2	10	6200	2	33
5	5400	4	60	2030	3	16	5300	1	14
6	4900	4	53	2060	3	17	4700	1	13
7	4390	3	36	3780	4	41	4250	1	11
8	4110	2	22	3990	4	43	10100	170	4640
9	3720	2	20	3690	3	30	45000	145	17600
10	3550	1	9.6	3070	2	17	38300	85	8790
11	4170	2	23	3000	3	24	25000	45	3040
12	4000	3	33	3370	3	27	18600	22	1100
13	4060	1	11	9440	18	264	15500	13	544
14	3080	1	8.3	11800	22	701	13500	7	255
15	3310	1	8.9	10500	13	369	11300	6	183
16	3010	2	16	9260	5	125	10400	6	168
17	3490	3	28	8480	3	69	11500	5	155
18	5200	9	126	7630	4	82	11500	4	124
19	4980	7	94	7050	4	76	9940	3	81
20	3450	3	28	6410	4	69	9030	3	73
21	3800	3	24	7450	3	60	8520	2	46
22	3510	2	19	10400	3	84	7100	2	30
23	3640	1	9.8	8740	5	118	6410	2	35
24	2930	1	7.9	7420	7	140	7040	2	30
25	2900	1	8.0	6820	6	110	7030	2	30
26	2840	2	15	6800	3	55	6730	2	36
27	2470	3	20	6510	3	53	7500	3	61
28	2390	3	19	5830	2	31	6770	2	37
29	2640	5	36	5320	2	29	5700	2	31
30	2710	4	29	4990	1	13	5250	2	20
31	2390	3	19	---	---	---	5070	2	32
MONTH	131600	---	1715.5	170890	---	2711	340320	---	37323

	JANUARY			FEBRUARY			MARCH		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	5920	1	16	11300	6	183	21300	7	403
2	4730	1	13	9720	5	131	16400	3	133
3	5410	1	15	8240	7	156	12900	4	139
4	4850	2	26	8440	8	182	11800	5	159
5	4090	3	33	7720	4	83	10200	3	83
6	3480	2	19	7370	2	40	9190	3	74
7	4550	2	25	7550	2	41	8560	4	92
8	4590	4	56	7120	3	56	8010	3	65
9	5790	5	78	5700	4	62	7090	2	38
10	12100	7	229	5040	6	82	5810	3	47
11	13900	16	600	6820	5	92	6740	1	18
12	20300	20	1100	6190	5	84	6630	3	54
13	24300	17	1120	5930	4	64	6480	1	17
14	21100	13	741	6750	5	91	6030	1	18
15	16200	9	394	6150	4	66	6330	3	51
16	13700	24	888	5150	6	83	5770	2	31
17	13100	16	566	4410	5	60	4870	2	26
18	11700	9	284	5740	6	93	5940	3	48
19	8890	7	168	6210	7	117	5810	1	16
20	9200	6	150	6150	4	66	18400	44	2190
21	9560	5	129	5910	1	16	36000	120	11900
22	7480	4	81	5120	1	14	25500	47	3240
23	7090	4	77	4880	1	13	20400	20	1100
24	6890	7	130	14900	30	1210	17400	11	517
25	7150	8	154	62700	220	37200	14000	7	359
26	8680	6	141	56300	80	12200	18000	5	254
27	12600	9	306	39300	35	3710	17600	4	190
28	11400	4	123	27800	25	1880	15000	3	121
29	10500	7	198	---	---	---	12300	3	100
30	11900	8	257	---	---	---	11800	4	127
31	12000	7	242	---	---	---	12500	9	304
MONTH	314030	---	8353	354610	---	58077	392160	---	21914

01442750 DELAWARE AT DUNNFIELD, N. J. (DELAWARE WATER GAP)--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

	APRIL			MAY			JUNE		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	12000	3	97	4800	1	13	4270	4	46
2	10500	8	227	4800	1	13	4430	3	36
3	13100	8	283	5400	1	15	4240	2	23
4	27000	46	3350	5600	1	15	4730	4	51
5	28000	32	2420	9250	3	75	4910	2	27
6	21000	17	964	12000	7	227	8250	3	67
7	17000	9	413	13100	12	424	17400	33	1550
8	15400	4	166	19200	33	1710	14600	24	946
9	13000	5	175	16200	15	656	10500	13	369
10	11500	4	124	13900	9	338	9650	6	156
11	10500	3	85	10700	5	144	9030	5	122
12	9860	2	53	9800	5	132	8440	5	114
13	8750	3	71	14600	11	434	14300	9	347
14	8080	3	65	17000	29	1330	16400	18	797
15	8000	2	43	16200	12	525	12400	16	536
16	7100	2	38	15100	7	285	10600	7	200
17	6900	2	37	15000	5	202	10200	7	193
18	6400	1	17	12400	4	134	8950	8	193
19	6200	2	33	11100	3	90	8000	5	108
20	5900	1	16	10600	4	114	7000	4	76
21	6290	1	17	8800	4	95	5700	3	46
22	6400	1	17	8200	3	66	5200	2	28
23	5900	1	16	8500	4	92	4500	2	24
24	5650	2	31	8200	7	155	4270	1	12
25	6550	6	106	7490	5	101	4000	6	65
26	6440	9	156	6890	7	130	3300	5	45
27	6300	3	51	5770	5	78	3000	4	32
28	5930	1	16	5970	3	48	3200	3	26
29	5400	1	15	4550	4	49	3500	4	38
30	5200	1	14	4260	2	23	3800	3	31
31	---	---	---	4260	2	23	---	---	---
MONTH	306360	---	9116	389640	---	7736	228770	---	6384

	JULY			AUGUST			SEPTEMBER		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	3500	2	19	3460	9	84	7000	4	76
2	3600	2	19	3110	7	59	4200	4	45
3	3000	2	16	2640	7	50	3650	3	30
4	2700	1	7.3	2600	9	63	3200	2	17
5	2300	3	19	2700	7	51	2900	2	16
6	2100	4	23	3300	5	45	2600	2	14
7	2100	3	17	3600	8	78	2000	1	5.4
8	2300	3	19	4200	9	102	1850	2	10
9	2100	4	23	3700	9	90	2500	3	20
10	2250	3	18	2800	8	60	2650	1	7.2
11	2500	4	27	2200	5	30	2500	1	6.8
12	2650	5	36	2500	3	20	2550	2	14
13	2900	7	55	2600	2	14	2220	2	12
14	5200	14	197	2440	3	20	1910	3	15
15	8000	9	194	2200	2	12	2380	7	45
16	6800	6	110	2300	2	12	2480	3	20
17	5800	5	78	2400	2	13	2240	1	6.0
18	4500	3	36	2500	2	14	2200	2	12
19	4200	5	57	2500	2	13	2150	1	5.8
20	4000	4	43	2300	2	12	2150	1	5.8
21	4700	6	76	2300	2	12	2300	1	6.2
22	6700	7	127	2200	2	12	2600	1	7.0
23	7100	11	211	2300	2	12	3430	1	9.3
24	5100	9	124	2400	2	13	4440	6	72
25	6500	7	123	3900	4	42	11300	16	488
26	8000	11	238	4200	3	34	28600	46	3550
27	6000	6	97	3500	2	19	21800	31	1820
28	5000	4	54	3000	2	16	18300	17	840
29	5000	3	40	2400	3	19	13600	8	294
30	4600	6	75	2550	5	34	11200	8	242
31	3800	5	51	6000	5	81	---	---	---
MONTH	135000	---	2229.3	90900	---	1136	172900	---	7711.5
YEAR	2947240		164326.3						

01445500 PEQUEST RIVER AT PEQUEST, N. J.

LOCATION.--Lat 40°49'43", long 74°58'45", Warren County, at gaging station at Pequest, 100 ft (30 m) upstream from Lehigh and Hudson River Railway bridge, and 300 ft (91 m) downstream from Furnace Brook.

DRAINAGE AREA.--108 mi^2 (280 km^2).

PERIOD OF RECORD.--Chemical analyses: October 1957 to September 1972 (partial-record station), October 1972 to September 1975.

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	TEMPERATURE (DEG C)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	DISSOLVED OXYGEN (MG/L)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L)	IMMEDIATE COLIFORM (COL. PER 100 ML)	FECAL COLIFORM (EC BROTH) (MPN)	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)	TURBIDITY (JTU)
OCT. 16...	1210	187	11.5	416	8.1	9.8	4.3	1700	--	6000	10250	--
NOV. 19...	1245	107	4.5	430	8.4	12.4	2.3	120	--	100	250	--
MAR. 25...	1245	381	8.2	392	8.1	11.7	2.8	--	240	50	--	6
APR. 17...	1410	224	11.4	380	8.5	12.6	2.3	--	49	4	--	2
MAY 07...	1145	315	11.9	383	8.1	10.2	5.2	--	>2400	2190	--	10
JUNE 04...	1200	175	16.0	380	8.3	9.1	5.6	--	700	540	--	4
JULY 09...	1315	85	19.0	422	8.3	9.3	.2	--	16000	5700	--	2
AUG. 12...	1140	175	20.0	426	8.1	9.6	2.6	--	3500	--	--	2
SEP. 09...	1200	101	16.5	496	--	8.6	1.1	--	--	300	--	2

DATE	COLOR (PLATINUM-COBALT UNITS)	TOTAL ORGANIC NITROGEN (N) (MG/L)	AMMONIA NITROGEN (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL ORTHO PHOSPHORUS (P) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)	ALKALINITY AS CACO3 (MG/L)	CARBONATE (CO3) (MG/L)
OCT. 16...	--	--	--	--	--	--	--	--	--	--	--	--
NOV. 19...	--	.14	.47	.02	.98	.61	1.6	.05	.02	11	--	--
MAR. 25...	23	.38	.09	.01	.65	.47	1.1	.03	.01	6.1	140	0
APR. 17...	9	.27	.07	.01	.93	.34	1.3	.04	.01	4.0	164	0
MAY 07...	30	1.3	.18	.10	.63	1.5	2.3	.15	.05	15	144	0
JUNE 04...	22	1.4	.09	.07	.93	1.5	2.5	.10	.03	8.0	171	0
JULY 09...	4	.23	.03	.19	1.8	.26	2.3	.06	.03	3.2	176	0
AUG. 12...	3	.24	.00	.02	1.1	.24	1.3	.04	.04	5.5	191	0
SEP. 09...	8	.52	.01	.02	.15	.53	.70	.01	.01	--	195	--

DATE	BICARBONATE (HCO3) (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	TOTAL NONFILTRABLE RESIDUE (MG/L)
OCT. 16...	--	--	--	--	--	--	--	--	--	--	--	--
NOV. 19...	--	--	--	--	--	--	--	--	--	--	--	--
MAR. 25...	171	2.2	170	27	44	14	7.0	1.3	14	27	196	40
APR. 17...	200	1.0	200	32	44	21	8.3	1.3	16	27	244	15
MAY 07...	175	2.2	170	30	43	16	6.7	1.4	14	29	231	93
JUNE 04...	208	1.7	190	24	45	20	7.5	1.1	15	25	260	16
JULY 09...	215	1.7	220	39	50	22	8.7	1.6	15	31	283	3
AUG. 12...	233	3.0	220	29	52	22	7.9	1.4	11	22	266	5
SEP. 09...	238	--	220	27	51	23	11	1.6	19	27	316	4

01446550 DELAWARE RIVER NEAR MARTINS CREEK, PA. (ROXBURG, N. J.)

LOCATION.--Lat 40°47'20", long 75°06'59", Northhampton County, at Pennsylvania Railroad crossing 900 ft (274 m) upstream from Oughoughton Creek, 4.7 mi (7.5 km) east of Martins Creek.

DRAINAGE AREA.--4,546 mi² (11,774 km²), approximately.

PERIOD OF RECORD.--Chemical analyses: July 1969 to September 1975.

REMARKS.--Operated as part of the USGS-EPA Surveillance Network. Records of discharge are given for 01446500, Delaware River at Belvidere, N.J.

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	TEMPERATURE (DEG C)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	DISSOLVED OXYGEN (MG/L)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L)	CHEMICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)	CHLOROPHYLL A (UG/L)
OCT.											
09...	1240	4510	13.0	140	8.6	10.5	7.0	10	--	--	2.00
17...	1110	5160	13.5	150	7.6	9.8	4.4	13	1000	820	3.60
23...	1015	3920	8.0	145	--	11.5	5.0	8	--	--	1.40
NOV.											
06...	0900	2520	16.0	100	--	9.2	1.8	6	--	--	3.10
20...	1400	7180	19.5	190	--	9.0	4.0	8	E30	E17	3.60
26...	0935	7040	10.0	140	--	9.0	1.0	8	E10	E23	1.00
DEC.											
12...	1200	22700	4.0	90	--	13.0	.8	9	320	540	3.00
26...	1030	8040	11.5	160	--	13.2	.6	8	35	--	1.00
JAN.											
02...	1025	6070	13.0	215	--	10.0	1.4	6	E8	E16	1.60
15...	0900	20600	1.0	260	--	13.2	1.2	13	E21	300	1.50
29...	1500	13900	10.5	280	--	10.8	.6	9	--	--	3.20
FEB.											
06...	1200	10200	11.5	150	--	13.0	--	8	E7	93	.200
19...	1130	7200	17.5	200	--	10.1	--	8	--	--	.900
MAR.											
05...	1400	14000	10.0	170	7.5	11.4	--	14	470	E480	5.30
13...	1000	8400	10.0	190	6.8	10.0	--	47	30	90	.300
26...	1045	23500	6.0	280	6.5	12.1	2.1	10	--	--	--
APR.											
09...	1010	17200	12.0	100	--	10.0	--	8	--	--	--
18...	0800	8100	20.0	140	--	9.4	1.9	9	--	--	--
MAY											
02...	0710	5900	27.0	140	7.5	8.7	4.5	15	--	--	--
14...	0955	20200	22.0	130	--	9.2	2.0	14	440	300	.080
23...	1000	10000	20.5	220	6.9	7.2	6.4	16	350	410	1.20
JUNE											
06...	0935	8300	23.0	300	6.9	7.9	2.0	14	260	420	--
19...	1115	9740	29.5	280	7.5	7.9	3.6	11	620	220	3.00
26...	1200	3800	25.0	375	7.1	8.5	5.8	42	--	E4000	2.20
JULY											
11...	1000	2560	30.0	240	--	9.0	2.5	10	390	--	8.00
24...	1300	5950	29.5	275	6.9	7.0	3.3	22	38	E26	--
AUG.											
15...	1200	2640	33.0	280	7.1	9.0	6.5	29	50	10	--
27...	1440	4120	30.5	190	7.5	5.5	2.4	14	89	120	--
SEP.											
05...	1200	3350	18.5	310	7.1	9.2	--	15	30	10	--
26...	1300	35200	15.5	280	7.1	7.3	1.0	10	E15	51	--

01446550 DELAWARE RIVER NEAR MARTINS CREEK, PA. (ROXBURG, N. J.)--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	CHLORO-PHYLL B (UG/L)	TUR-BID-ITY (JTU)	TOTAL ORGANIC NITRO-GEN (N) (MG/L)	AMMONIA NITRO-GEN (N) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	SUS-PENDED SOLIDS (MG/L)
OCT.											
09...	1.00	1	.69	.29	.19	.98	1.2	.05	25	79	—
17...	.200	2	.58	.42	.25	1.0	1.3	.06	6.0	99	5
23...	.000	2	.13	.21	.11	.34	.45	.02	2.6	73	7
NOV.											
06...	.000	2	.17	.24	.17	.41	.58	.04	5.2	78	—
20...	.200	3	.25	.25	.40	.50	.90	.02	3.0	88	3
26...	.000	2	.09	.07	.38	.16	.54	.03	5.1	85	14
DEC.											
12...	.600	18	.30	.09	1.5	.39	1.9	.05	—	75	120
26...	.600	3	.16	.00	.42	.16	.58	.02	14	75	6
JAN.											
02...	.000	5	.22	.01	.70	.23	.93	.03	2.0	143	9
15...	1.20	10	.43	.03	4.9	.46	5.4	.05	3.1	166	83
29...	1.70	4	.65	.14	.80	.79	1.6	.04	3.7	102	10
FEB.											
06...	1.40	3	.16	.02	.49	.18	.67	.02	3.5	89	2
19...	1.40	3	.08	.08	.54	.16	.70	.02	1.8	77	4
MAR.											
05...	17.0	6	.21	.08	.50	.29	.79	.05	—	88	5
13...	.700	2	.17	.11	.38	.28	.66	.03	5.6	58	25
26...	—	8	.29	.15	4.4	.44	4.8	.05	4.8	152	15
APR.											
09...	—	3	.57	.19	1.4	.76	2.2	.05	2.5	89	6
18...	—	2	.11	.01	.27	.12	.39	.02	3.3	54	30
MAY											
02...	—	1	.55	.34	.38	.89	1.3	.04	3.2	80	10
14...	.000	6	.22	.09	.42	.31	.73	.04	3.9	—	19
23...	.000	4	1.0	.27	.39	1.3	1.7	.13	5.4	130	98
JUNE											
06...	—	6	.31	.04	.57	.35	.92	.10	3.8	180	40
19...	.000	3	.58	.26	.36	.84	1.2	.08	2.4	110	17
26...	.000	12	1.1	.33	2.2	1.4	3.6	.11	7.0	217	275
JULY											
11...	.000	7	1.0	.08	.13	1.0	1.1	.11	4.0	116	50
24...	—	9	.82	.09	.81	.91	1.7	.04	2.4	137	68
AUG.											
15...	—	3	.96	.24	.19	1.2	1.4	.04	—	133	6
27...	—	1	.64	.20	.30	.84	1.2	.04	4.3	117	2
SEP.											
08...	—	30	.73	.01	.22	.74	.96	.13	—	—	—
26...	—	2	.59	.17	.30	.76	1.1	.04	—	—	—

01446700 DELAWARE RIVER AT EASTON, PA. (PHILLIPSBURG, N. J.)

LOCATION.--Lat 40°42'43", long 75°11'48", Northampton County, at gaging station on right bank 200 ft (61 m) from city of Easton pumping station, 1.2 mi (1.9 km) upstream from Bushkill Creek in Easton.

DRAINAGE AREA.--4,640 mi² (12,000 km²).

PERIOD OF RECORD.--Chemical analyses: October 1947 to September 1951, October 1957 to September 1958, November 1967 to September 1975.
Water temperatures: October 1947 to September 1949, October 1957 to September 1958, October 1963 to September 1964, November 1967 to September 1975.

EXTREMES.--1974-75:
Specific conductance: Maximum, 214 micromhos Aug. 23; minimum, 84 micromhos Feb. 26.
Dissolved oxygen: Maximum, 18.1 mg/l Jan. 21; minimum, 4.8 mg/l July 9.
Water temperatures: Maximum, 26.5°C June 24; minimum, 0.0°C Jan. 21, Feb. 26, 27.
pH: Maximum, 8.9 Apr. 30, July 9, 10, 11; minimum 6.2 May 15, 16, 18.
Period of record:
Specific conductance (1967-75): Maximum, 499 micromhos Nov. 26, 1970; minimum, 40 micromhos Apr. 6, 1970.
Dissolved oxygen (1967-75): Maximum, 15.9 mg/l Dec. 17-19, 1972; minimum, 5.7 mg/l July 19-20, 24, 1968.
Water temperatures: Maximum, 30.5°C July 27, 28, Sept. 2-4, 1973; minimum, freezing point on many days during winter months.
pH: Maximum, 9.8 May 16, 1970; minimum, 5.7 May 24, 1970.

REMARKS.--Missing continuous water-quality records are the result of malfunction of sensor or sampling mechanism.

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	110	99	106	192	174	180				---	---	---
2	106	93	100	180	173	177				---	---	---
3	109	96	102	185	173	180				---	---	---
4	113	108	110	185	175	180				---	---	---
5	117	109	115	188	178	183				---	---	---
6	122	115	119	189	180	184				---	---	---
7	127	119	123	187	159	177				---	---	---
8	133	126	129	157	144	151				---	---	---
9	131	122	128	150	140	147				---	---	---
10	142	120	127	---	---	---				---	---	---
11	140	120	127	---	---	---				---	---	---
12	128	108	117	---	---	---				---	---	---
13	129	112	117	---	---	---				---	---	---
14	125	116	120	---	---	---				---	---	---
15	145	126	130	---	---	---				---	---	---
16	151	130	138	---	---	---				110	107	---
17	191	152	163	---	---	---				110	107	109
18	150	131	140	---	---	---				117	107	112
19	130	120	125	---	---	---				137	118	129
20	132	118	124	---	---	---				139	132	136
21	141	130	136	---	---	---				133	128	132
22	148	135	143	---	---	---				144	129	139
23	157	140	150	---	---	---				154	138	144
24	161	150	154	---	---	---				149	139	144
25	171	160	167	---	---	---				158	140	150
26	168	162	165	---	---	---				160	147	155
27	194	163	169	---	---	---				146	110	129
28	179	173	177	---	---	---				121	116	118
29	182	170	177	---	---	---				127	120	123
30	180	164	171	---	---	---				127	123	---
31	179	163	171	---	---	---				---	---	---
MONTH	194	93	137	---	---	---				---	---	---

01446700 DELAWARE RIVER AT EASTON, PA. (PHILLIPSBURG, N. J.)--Continued

SPECIFIC CONDUCTANCE (MICROMHOS AT 25°C), WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	---	---	---	119	117	118	149	145	148
2	---	---	---	---	---	---	122	119	121	156	150	153
3	---	---	---	---	---	---	132	122	127	155	144	152
4	---	---	---	---	---	---	133	124	---	153	145	147
5	---	---	---	---	---	---	---	---	---	148	134	143
6	---	---	---	---	---	---	---	---	---	---	---	---
7	---	---	---	---	---	---	---	---	---	---	---	---
8	---	---	---	---	---	---	---	---	---	101	97	---
9	---	---	---	---	---	---	---	---	---	99	97	99
10	---	---	---	---	---	---	---	---	---	105	100	102
11	---	---	---	---	---	---	---	---	---	111	106	108
12	156	151	---	---	---	---	---	---	---	114	111	113
13	159	150	154	150	146	---	---	---	---	115	106	112
14	157	150	153	148	143	146	---	---	---	104	95	99
15	157	141	148	149	144	147	---	---	---	95	93	93
16	151	139	145	151	147	150	---	---	---	101	92	96
17	158	140	145	153	147	150	---	---	---	101	96	98
18	160	150	156	153	141	148	---	---	---	102	98	100
19	155	147	151	152	141	145	---	---	---	105	101	103
20	148	142	145	155	123	142	---	---	---	105	99	102
21	145	141	143	121	109	113	---	---	---	114	101	---
22	143	139	141	110	107	108	136	129	---	---	---	---
23	146	140	143	113	110	111	132	128	131	---	---	---
24	145	131	138	117	112	115	134	130	132	---	---	---
25	134	99	118	118	113	115	139	135	137	---	---	---
26	101	84	92	115	111	113	138	130	133	---	---	---
27	87	85	---	114	111	113	133	130	131	---	---	---
28	---	---	---	115	113	114	134	132	133	---	---	---
29	---	---	---	120	115	118	134	131	132	155	139	---
30	---	---	---	122	119	121	140	130	137	161	155	158
31	---	---	---	122	119	120	---	---	---	168	158	164
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	173	162	168	153	141	146	---	---	---	145	118	123
2	171	161	166	142	132	138	---	---	---	133	124	130
3	163	160	162	142	131	136	---	---	---	140	134	138
4	161	155	159	145	139	142	---	---	---	140	135	137
5	158	149	155	152	141	144	---	---	---	142	136	139
6	171	150	161	155	150	152	---	---	---	149	136	142
7	158	116	133	156	147	151	---	---	---	158	144	149
8	117	114	116	169	153	160	---	---	---	167	159	164
9	124	115	119	175	165	169	---	---	---	169	164	167
10	127	114	121	179	174	175	---	---	---	163	134	143
11	122	115	119	185	172	177	---	---	---	142	132	135
12	130	117	125	169	160	---	---	---	---	144	130	138
13	136	110	126	---	---	---	---	---	---	157	143	151
14	109	97	101	---	---	---	---	---	---	169	157	163
15	103	100	101	---	---	---	---	---	---	170	152	160
16	106	103	104	---	---	---	---	---	---	155	152	153
17	111	107	108	---	---	---	---	---	---	164	152	158
18	112	109	111	206	181	196	---	---	---	177	161	167
19	132	113	124	207	195	202	---	---	---	186	177	181
20	133	125	129	195	175	184	195	188	---	188	178	183
21	135	125	130	211	188	202	210	196	201	199	183	189
22	142	136	138	210	195	198	213	204	208	199	191	196
23	143	138	141	154	145	148	214	205	210	194	182	187
24	143	132	137	159	147	155	208	199	203	207	182	195
25	154	144	---	154	136	---	204	176	193	197	192	---
26	165	154	161	---	---	---	208	174	195	---	---	---
27	165	162	164	---	---	---	184	171	177	---	---	---
28	166	161	164	---	---	---	184	175	179	---	---	---
29	165	152	158	---	---	---	195	184	189	---	---	---
30	159	151	154	---	---	---	198	192	195	---	---	---
31	---	---	---	---	---	---	197	154	189	---	---	---
MONTH	173	97	136	---	---	---	---	---	---	207	118	158

01446700 DELAWARE RIVER AT EASTON, PA. (PHILLIPSBURG, N. J.)--Continued

DISSOLVED OXYGEN (DO), IN MILLIGRAMS PER LITER, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	11.5	9.4	10.3				---	---	---
2	9.9	9.6	---	11.2	8.9	9.9				---	---	---
3	10.7	9.8	10.4	9.8	8.5	9.1				---	---	---
4	11.2	10.6	10.9	10.7	8.1	9.4				---	---	---
5	11.4	10.3	11.1	9.5	8.5	9.0				---	---	---
6	10.9	9.7	10.5	10.5	9.0	9.6				---	---	---
7	10.8	10.2	10.4	10.5	9.1	9.8				---	---	---
8	10.9	10.1	10.5	11.5	9.8	10.7				---	---	---
9	11.3	10.0	10.6	12.0	10.6	11.2				---	---	---
10	11.7	10.4	10.9	---	---	---				---	---	---
11	11.8	10.1	10.9	---	---	---				---	---	---
12	11.1	9.8	9.9	---	---	---				---	---	---
13	11.2	10.0	10.5	---	---	---				---	---	---
14	10.2	8.2	9.5	---	---	---				---	---	---
15	9.3	7.0	8.3	---	---	---				---	---	---
16	9.7	7.2	8.4	---	---	---				16.4	14.2	---
17	10.2	9.8	---	---	---	---				16.0	9.7	13.2
18	---	---	---	---	---	---				16.1	12.3	13.3
19	---	---	---	---	---	---				16.5	14.7	15.4
20	---	---	---	---	---	---				16.1	14.8	15.3
21	---	---	---	---	---	---				18.1	16.4	17.3
22	---	---	---	---	---	---				17.7	13.3	15.0
23	12.0	11.1	---	---	---	---				14.1	13.4	13.7
24	12.1	11.1	11.5	---	---	---				14.6	12.6	13.6
25	11.6	10.6	11.1	---	---	---				12.6	11.5	12.1
26	11.9	10.4	11.0	---	---	---				12.2	11.3	11.8
27	11.7	10.4	10.9	---	---	---				12.9	12.2	12.5
28	11.9	10.1	10.9	---	---	---				13.2	13.1	13.1
29	11.7	10.0	10.8	---	---	---				13.4	12.1	12.8
30	12.5	10.2	11.2	---	---	---				12.1	12.0	---
31	11.9	10.0	10.7	---	---	---				---	---	---
MONTH	12.5	7.2	---	---	---	---				---	---	---

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	---	---	---	13.3	11.6	12.5	10.9	10.2	10.5
2	---	---	---	---	---	---	11.8	10.8	11.6	11.8	10.1	10.9
3	---	---	---	---	---	---	10.9	10.2	10.5	12.1	10.2	11.1
4	---	---	---	---	---	---	12.3	11.0	---	10.5	9.7	10.0
5	---	---	---	---	---	---	---	---	---	10.9	9.8	10.3
6	---	---	---	---	---	---	---	---	---	---	---	---
7	---	---	---	---	---	---	---	---	---	---	---	---
8	---	---	---	---	---	---	---	---	---	10.6	10.3	---
9	---	---	---	---	---	---	---	---	---	10.6	10.2	10.6
10	---	---	---	---	---	---	---	---	---	10.7	10.0	10.4
11	---	---	---	---	---	---	---	---	---	10.7	9.9	10.3
12	14.1	13.7	---	---	---	---	---	---	---	10.2	9.4	9.8
13	13.0	11.1	12.3	12.0	11.2	---	---	---	---	10.0	9.1	9.5
14	14.6	10.6	12.5	12.7	11.6	12.1	---	---	---	10.1	8.9	9.6
15	14.1	10.4	12.1	13.5	12.2	12.8	---	---	---	9.8	9.3	9.6
16	12.0	11.1	---	13.3	12.5	12.8	10.9	10.3	---	9.5	9.1	9.3
17	---	---	---	12.5	10.7	11.7	10.6	9.8	10.3	9.7	8.9	9.3
18	---	---	---	11.2	10.2	10.6	10.1	9.3	9.8	9.1	8.4	8.6
19	12.9	12.7	---	12.0	10.0	11.2	9.6	9.1	9.4	8.6	8.1	8.4
20	13.4	12.5	13.0	12.3	11.2	11.6	10.0	9.2	9.6	8.4	7.7	8.1
21	13.1	11.9	12.5	14.1	12.4	13.4	10.1	9.3	9.7	8.7	7.3	---
22	12.6	12.1	---	14.6	13.0	14.3	12.0	9.4	10.0	---	---	---
23	---	---	---	14.1	12.7	13.5	11.9	11.0	11.5	---	---	---
24	---	---	---	12.9	12.6	12.8	11.3	10.4	10.8	---	---	---
25	---	---	---	12.8	12.2	12.5	11.4	10.1	10.6	---	---	---
26	12.9	11.9	---	12.8	12.1	12.4	11.3	10.0	10.6	---	---	---
27	12.9	11.9	---	13.7	12.9	13.3	11.8	10.3	11.0	---	---	---
28	---	---	---	14.7	13.5	14.1	12.0	10.6	11.2	---	---	---
29	---	---	---	14.3	11.9	13.9	12.0	10.2	11.0	9.3	8.8	---
30	---	---	---	13.5	12.7	13.2	12.5	10.5	11.4	8.1	7.4	7.7
31	---	---	---	13.8	12.6	13.1	---	---	---	8.6	7.5	8.0
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

01446700 DELAWARE RIVER AT EASTON, PA. (PHILLIPSBURG, N. J.)--Continued

DISSOLVED OXYGEN (DO), IN MILLIGRAMS PER LITER, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	7.9	7.3	7.6	9.9	7.2	8.5	---	---	---	8.6	7.9	8.4
2	8.6	7.5	8.1	10.2	7.1	8.6	---	---	---	---	---	---
3	8.5	7.5	8.0	9.8	6.6	7.8	---	---	---	9.5	9.0	---
4	9.0	7.5	8.2	9.8	6.3	8.1	---	---	---	9.7	8.8	9.2
5	8.9	7.4	8.2	10.2	6.3	8.2	---	---	---	9.8	8.6	9.2
6	8.7	8.2	---	9.7	6.1	7.7	---	---	---	9.6	8.1	8.8
7	---	---	---	9.1	5.6	7.2	---	---	---	9.7	8.3	9.0
8	---	---	---	8.4	5.2	6.8	---	---	---	9.3	8.0	8.6
9	---	---	---	8.9	4.8	6.9	---	---	---	8.9	7.3	8.2
10	---	---	---	9.6	5.9	7.8	---	---	---	9.3	7.7	8.6
11	---	---	---	10.2	6.0	8.1	---	---	---	9.1	8.0	8.5
12	---	---	---	7.5	6.2	---	---	---	---	8.2	7.5	7.9
13	---	---	---	---	---	---	---	---	---	9.0	7.3	8.3
14	---	---	---	---	---	---	---	---	---	9.9	8.5	9.2
15	---	---	---	---	---	---	---	---	---	10.0	8.4	9.2
16	---	---	---	---	---	---	---	---	---	9.4	7.6	8.8
17	---	---	---	---	---	---	---	---	---	10.1	8.3	9.2
18	10.0	9.3	---	7.7	6.2	7.1	---	---	---	9.9	8.5	9.0
19	9.2	8.6	8.9	7.6	6.4	7.0	---	---	---	9.1	8.4	8.7
20	9.5	8.6	9.0	7.4	6.1	6.6	9.1	7.4	---	9.4	8.2	8.7
21	9.8	8.4	9.1	6.6	6.2	6.4	9.2	6.5	7.8	8.8	7.7	8.2
22	10.2	8.2	9.3	6.6	5.8	6.2	8.8	6.5	7.6	9.0	7.6	8.2
23	10.4	7.7	9.1	6.9	5.8	6.3	9.2	6.6	7.8	8.0	7.2	7.7
24	10.3	7.2	8.7	6.9	5.7	6.2	7.7	6.5	7.1	8.4	7.8	8.1
25	9.7	7.6	---	---	---	---	6.9	6.6	6.7	---	---	---
26	9.6	7.1	8.3	---	---	---	6.5	6.2	---	---	---	---
27	9.2	7.1	8.2	---	---	---	---	---	---	---	---	---
28	9.7	7.2	8.3	---	---	---	8.9	8.0	---	---	---	---
29	8.7	7.4	8.0	---	---	---	9.0	7.5	8.2	---	---	---
30	9.3	7.4	8.2	---	---	---	8.6	7.1	7.8	---	---	---
31	---	---	---	---	---	---	9.2	7.5	8.3	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	16.0	14.5	15.0	14.5	12.0	13.5				---	---	---
2	14.5	12.0	13.5	16.0	14.0	15.0				---	---	---
3	12.0	10.0	11.0	15.5	15.0	15.0				---	---	---
4	11.0	9.0	10.0	17.0	15.0	16.0				---	---	---
5	10.5	8.5	9.5	16.5	15.0	16.0				---	---	---
6	12.0	9.0	10.5	15.5	14.0	14.5				---	---	---
7	13.0	10.5	11.5	14.5	13.0	14.0				---	---	---
8	12.0	10.0	11.0	12.0	10.5	11.0				---	---	---
9	13.0	10.0	11.5	11.0	9.0	10.0				---	---	---
10	13.5	11.0	12.5	---	---	---				---	---	---
11	14.0	11.5	13.0	---	---	---				---	---	---
12	14.5	12.0	13.0	---	---	---				---	---	---
13	14.0	13.5	13.5	---	---	---				---	---	---
14	14.0	13.5	13.5	---	---	---				---	---	---
15	14.5	13.5	14.0	---	---	---				---	---	---
16	14.5	13.0	14.0	---	---	---				1.5	1.0	---
17	15.0	13.5	14.0	---	---	---				1.5	0.5	1.0
18	14.0	11.0	13.0	---	---	---				1.5	0.5	1.0
19	11.0	9.5	10.0	---	---	---				3.0	1.0	2.0
20	9.5	6.5	8.0	---	---	---				3.0	1.0	2.0
21	6.5	5.5	6.0	---	---	---				1.0	0.0	0.5
22	6.5	4.0	5.5	---	---	---				3.0	0.5	2.0
23	9.0	6.5	7.5	---	---	---				3.0	1.5	2.5
24	9.5	6.0	8.0	---	---	---				3.5	1.5	2.5
25	8.5	8.0	8.0	---	---	---				4.5	3.5	4.0
26	10.0	8.5	9.0	---	---	---				4.5	3.5	4.0
27	11.0	8.5	9.5	---	---	---				4.0	3.5	4.0
28	11.0	9.0	10.0	---	---	---				3.5	3.0	3.5
29	11.5	10.0	10.5	---	---	---				4.5	3.0	3.5
30	11.5	10.0	10.5	---	---	---				4.5	4.0	---
31	13.0	10.5	11.5	---	---	---				---	---	---
MONTH	16.0	4.0	11.0	---	---	---				---	---	---

01446700 DELAWARE RIVER AT EASTON, PA. (PHILLIPSBURG, N. J.)--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	---	---	---	8.0	4.5	6.5	14.0	13.0	13.5
2	---	---	---	---	---	---	10.0	6.5	8.5	14.5	12.0	13.5
3	---	---	---	---	---	---	9.5	8.0	9.0	15.5	12.0	14.0
4	---	---	---	---	---	---	7.0	5.5	6.5	15.0	13.0	14.0
5	---	---	---	---	---	---	5.5	4.5	5.0	15.5	12.0	14.0
6	---	---	---	---	---	---	5.0	4.5	4.5	---	---	---
7	---	---	---	---	---	---	6.5	4.0	5.0	---	---	---
8	---	---	---	---	---	---	9.0	6.0	7.5	13.0	11.0	---
9	---	---	---	---	---	---	10.0	7.0	8.5	13.5	11.0	12.0
10	---	---	---	---	---	---	11.0	8.5	10.0	14.5	12.0	13.5
11	---	---	---	---	---	---	12.0	9.5	10.5	14.5	12.0	13.5
12	1.0	0.5	---	---	---	---	12.0	11.0	11.5	15.5	14.0	14.5
13	3.5	0.5	2.0	7.0	5.0	---	12.0	11.0	11.5	16.0	14.5	15.0
14	3.5	0.5	1.5	5.5	4.5	5.0	11.5	10.5	---	16.5	13.5	15.5
15	3.5	0.5	2.0	6.0	3.5	4.5	---	---	---	18.0	15.5	16.5
16	3.5	2.0	3.0	5.5	4.0	5.0	10.0	9.5	---	19.0	17.0	18.0
17	4.0	3.0	3.5	9.0	5.0	7.0	11.5	9.5	10.5	19.0	16.5	18.0
18	4.0	4.0	---	10.0	6.5	8.5	11.5	10.5	11.0	18.5	17.0	18.0
19	4.0	3.0	---	9.0	6.5	8.5	12.0	11.5	12.0	20.0	17.0	18.5
20	3.5	1.5	2.5	9.0	6.5	8.5	12.0	11.0	11.5	21.0	19.0	20.0
21	4.0	1.5	3.0	6.5	4.5	5.5	13.0	11.0	11.5	20.5	19.5	---
22	5.0	1.5	3.5	5.0	4.0	4.5	13.0	10.5	11.5	---	---	---
23	4.5	3.5	4.0	7.0	4.5	5.5	13.5	10.0	12.0	---	---	---
24	4.5	4.0	4.5	6.5	6.0	6.5	13.0	11.5	12.5	---	---	---
25	4.5	2.0	3.0	8.0	6.0	7.0	14.0	12.0	13.5	---	---	---
26	0.5	0.0	---	7.0	5.0	6.0	15.0	13.0	14.0	---	---	---
27	0.0	0.0	---	5.0	3.5	4.5	14.0	12.0	13.0	---	---	---
28	---	---	---	5.0	3.0	4.0	14.0	11.5	13.0	---	---	---
29	---	---	---	4.5	4.0	4.5	13.5	12.0	13.0	24.0	23.0	---
30	---	---	---	5.5	4.5	5.0	15.0	11.5	13.0	22.0	20.5	21.5
31	---	---	---	6.0	4.0	5.0	---	---	---	21.5	20.0	21.0
MONTH	---	---	---	---	---	---	15.0	4.0	10.0	---	---	---

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	22.0	21.0	21.5	24.0	20.0	22.0	---	---	---	---	---	---
2	23.0	20.5	21.5	24.5	21.0	23.0	---	---	---	---	---	---
3	23.5	21.0	22.0	24.5	22.0	23.5	---	---	---	21.0	20.0	---
4	23.5	21.0	22.0	24.5	22.0	23.5	---	---	---	20.5	18.5	19.5
5	22.0	20.0	21.0	24.5	22.0	23.5	---	---	---	21.5	19.0	20.5
6	20.0	17.0	19.0	24.5	22.0	23.5	---	---	---	21.0	20.0	20.5
7	17.0	16.0	16.5	25.0	22.0	23.5	---	---	---	22.0	19.5	20.5
8	16.0	15.0	15.5	25.0	23.5	24.0	---	---	---	22.0	20.0	21.0
9	18.0	15.0	16.0	24.5	23.5	24.0	---	---	---	23.0	20.5	21.5
10	18.5	17.0	18.0	25.5	23.0	24.0	---	---	---	21.5	18.5	20.0
11	19.0	17.0	18.0	25.5	23.5	24.5	---	---	---	19.5	18.5	19.0
12	18.5	17.0	18.0	24.5	24.0	---	---	---	---	19.5	18.5	19.0
13	20.0	17.0	19.0	---	---	---	---	---	---	18.5	16.5	17.5
14	20.0	18.5	19.0	---	---	---	---	---	---	16.5	14.5	15.5
15	19.5	18.5	19.0	---	---	---	---	---	---	15.0	13.5	14.5
16	19.5	18.0	18.5	---	---	---	---	---	---	15.0	13.5	14.5
17	20.0	19.0	19.5	---	---	---	---	---	---	17.0	14.5	15.5
18	21.5	19.5	20.5	25.5	23.5	24.5	---	---	---	16.5	16.0	16.5
19	22.0	20.5	21.0	25.0	23.5	24.5	---	---	---	17.0	16.0	16.5
20	23.0	20.5	22.0	24.5	21.5	24.0	25.0	23.5	---	19.0	16.5	18.0
21	23.5	21.0	22.0	24.0	20.5	22.0	24.0	22.0	23.0	20.0	18.5	19.0
22	24.0	21.5	22.5	25.0	21.5	23.5	25.0	23.0	24.0	20.0	18.0	19.0
23	25.0	23.0	24.0	25.0	23.0	24.0	24.0	22.0	23.0	19.0	18.0	18.5
24	26.5	24.5	25.5	25.0	23.0	24.0	23.0	21.5	22.0	18.0	14.5	15.5
25	26.0	24.5	---	---	---	---	23.5	20.0	21.5	14.5	14.0	14.5
26	25.5	24.5	25.0	---	---	---	25.0	22.0	23.5	16.5	14.0	---
27	24.0	23.0	23.5	---	---	---	25.0	23.0	24.0	---	---	---
28	23.0	21.0	22.0	---	---	---	26.0	23.5	25.0	---	---	---
29	23.5	21.0	22.0	---	---	---	25.0	23.0	24.0	---	---	---
30	23.5	20.5	22.0	---	---	---	24.5	23.5	24.0	---	---	---
31	---	---	---	---	---	---	23.0	21.0	---	---	---	---
MONTH	26.5	15.0	20.5	---	---	---	---	---	---	23.0	13.5	---

01446700 DELAWARE RIVER AT EASTON, PA. (PHILLIPSBURG, N. J.)--Continued

pH (UNITS), WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	7.0	6.9	7.0	8.5	7.1	7.8				---	---	---
2	7.1	6.9	7.0	8.6	7.1	7.9				---	---	---
3	7.2	7.0	7.1	7.9	7.1	7.4				---	---	---
4	7.4	7.1	7.2	8.4	7.0	7.6				---	---	---
5	7.5	7.1	7.3	7.5	7.0	7.2				---	---	---
6	7.7	7.1	7.3	8.2	7.0	7.5				---	---	---
7	7.7	7.1	7.4	8.0	7.2	7.5				---	---	---
8	7.9	7.1	7.5	8.1	7.0	7.5				---	---	---
9	8.1	7.0	7.6	8.3	7.1	7.6				---	---	---
10	8.3	7.2	7.7	7.7	7.2	7.4				---	---	---
11	8.0	7.5	---	7.3	6.9	---				---	---	---
12	---	---	---	---	---	---				---	---	---
13	---	---	---	---	---	---				---	---	---
14	---	---	---	---	---	---				---	---	---
15	---	---	---	---	---	---				---	---	---
16	7.0	7.0	---	---	---	---				7.3	7.2	---
17	7.5	6.9	7.2	---	---	---				7.3	7.2	7.2
18	7.5	7.0	7.2	---	---	---				7.3	7.2	7.3
19	7.5	6.9	7.2	---	---	---				7.4	7.3	7.4
20	7.5	6.9	7.2	---	---	---				7.4	7.3	7.4
21	7.7	7.0	7.3	---	---	---				7.4	7.3	7.3
22	7.8	7.0	7.3	---	---	---				7.4	7.3	7.4
23	7.9	6.9	7.4	---	---	---				7.4	7.1	7.3
24	8.1	7.0	7.5	---	---	---				7.2	7.0	7.1
25	7.6	7.0	7.3	---	---	---				7.2	7.1	7.1
26	8.2	7.0	7.6	---	---	---				7.3	7.1	7.2
27	8.3	7.1	7.7	---	---	---				7.1	7.0	7.0
28	8.3	7.2	7.7	---	---	---				7.0	6.9	7.0
29	8.3	7.1	7.7	---	---	---				7.1	6.8	6.9
30	8.5	7.1	7.7	---	---	---				6.9	6.9	---
31	8.5	7.2	7.8	---	---	---				---	---	---
MONTH	8.5	6.9	7.4	---	---	---				---	---	---

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	---	---	---	7.1	6.9	7.0	8.2	7.4	7.7
2	---	---	---	---	---	---	7.1	6.9	7.0	8.5	7.2	7.8
3	---	---	---	---	---	---	7.1	6.9	7.0	8.8	7.3	8.1
4	---	---	---	---	---	---	7.0	6.8	6.9	8.0	7.1	7.4
5	---	---	---	---	---	---	6.9	6.9	6.9	8.0	7.0	7.4
6	---	---	---	---	---	---	---	---	---	---	---	---
7	---	---	---	---	---	---	7.2	7.0	---	---	---	---
8	---	---	---	---	---	---	7.1	7.0	7.0	7.2	6.9	---
9	---	---	---	---	---	---	7.2	7.0	7.1	7.0	6.8	---
10	---	---	---	---	---	---	7.3	7.1	7.2	---	---	---
11	---	---	---	---	---	---	7.2	7.1	7.1	---	---	---
12	7.1	7.0	---	---	---	---	7.2	7.1	7.1	---	---	---
13	7.2	6.9	7.1	6.8	6.6	---	7.1	7.1	7.1	---	---	---
14	7.2	7.0	7.1	6.8	6.6	6.7	7.1	7.0	7.1	6.6	6.3	---
15	7.2	6.9	7.1	6.8	6.6	6.7	7.1	7.0	7.0	6.5	6.2	6.3
16	7.2	6.9	7.0	6.8	6.7	6.7	7.1	7.0	7.0	6.6	6.2	6.4
17	7.1	6.9	7.0	6.9	6.7	6.8	7.1	7.0	7.0	6.6	6.3	6.4
18	7.2	6.9	7.1	6.9	6.7	6.8	7.0	6.9	7.0	6.5	6.2	6.4
19	7.2	6.9	7.0	7.1	6.7	6.9	7.0	6.9	6.9	6.9	6.4	6.6
20	7.0	6.8	6.9	7.2	6.8	7.0	6.9	6.7	6.8	7.3	6.6	6.9
21	7.1	6.8	6.9	6.8	6.5	6.6	6.8	6.7	6.7	7.0	6.8	---
22	7.1	6.7	6.9	6.6	6.6	6.6	7.9	6.6	7.1	---	---	---
23	6.8	6.7	6.8	6.7	6.6	6.7	8.1	7.0	7.6	---	---	---
24	6.7	6.7	---	6.7	6.7	6.7	7.5	7.1	7.3	---	---	---
25	---	---	---	6.8	6.7	6.7	7.8	7.0	7.3	---	---	---
26	---	---	---	6.8	6.7	6.7	8.0	7.0	7.5	---	---	---
27	---	---	---	6.8	6.7	6.8	8.2	6.9	7.5	---	---	---
28	---	---	---	6.9	6.7	6.8	8.3	7.0	7.7	---	---	---
29	---	---	---	7.0	6.8	6.9	8.1	6.9	7.5	7.9	7.0	---
30	---	---	---	7.0	6.9	6.9	8.9	6.9	7.9	6.9	6.5	6.6
31	---	---	---	7.0	6.9	7.0	---	---	---	7.0	6.4	6.6
MONTH	---	---	---	---	---	---	8.9	6.6	7.2	---	---	---

01446700 DELAWARE RIVER AT EASTON, PA. (PHILLIPSBURG, N. J.)--Continued

pH (UNITS), WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	JUNE			JULY			AUGUST			SEPTEMBER		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	6.8	6.4	6.6	8.6	6.8	7.7	---	---	---	7.1	6.8	6.9
2	7.3	6.5	6.9	8.6	7.1	8.0	---	---	---	7.0	6.8	6.9
3	7.4	6.6	6.9	8.4	6.9	7.6	---	---	---	7.2	6.8	6.9
4	7.8	6.6	7.2	8.5	6.7	7.6	---	---	---	7.1	6.7	6.9
5	7.7	6.9	7.3	8.6	6.9	7.9	---	---	---	7.2	6.7	6.9
6	7.4	7.1	7.2	8.6	7.0	7.9	---	---	---	7.2	6.7	6.9
7	7.1	6.6	6.8	8.4	6.8	7.7	---	---	---	7.4	6.7	7.0
8	6.6	6.5	6.6	8.4	6.8	7.7	---	---	---	7.4	6.7	7.0
9	6.7	6.5	6.6	8.9	6.9	8.0	---	---	---	7.4	6.7	7.0
10	6.7	6.4	6.6	8.9	7.6	8.3	---	---	---	7.5	6.6	7.1
11	6.6	6.4	---	8.9	7.8	8.5	---	---	---	7.1	6.7	6.8
12	---	---	---	8.6	7.9	---	---	---	---	6.7	6.5	6.6
13	---	---	---	---	---	---	---	---	---	7.0	6.4	6.7
14	---	---	---	---	---	---	---	---	---	7.3	6.6	6.9
15	---	---	---	---	---	---	---	---	---	7.4	6.7	7.0
16	---	---	---	---	---	---	---	---	---	7.3	6.7	7.0
17	---	---	---	---	---	---	---	---	---	7.5	6.7	7.0
18	7.5	7.0	---	7.9	7.5	---	---	---	---	7.9	7.1	7.5
19	7.5	6.7	7.0	7.8	7.4	7.6	---	---	---	7.5	7.2	7.3
20	7.5	6.8	7.2	7.6	7.2	7.3	8.3	7.7	---	7.8	7.2	7.4
21	7.9	6.9	7.3	7.4	7.2	7.3	8.1	7.3	7.7	7.8	7.2	7.4
22	8.3	7.0	7.7	7.5	7.2	7.3	8.0	7.2	7.6	8.0	7.3	7.6
23	8.6	7.2	8.0	7.4	7.1	7.2	8.0	7.1	7.5	7.4	7.2	7.3
24	8.6	7.0	8.0	7.6	6.9	7.2	7.3	7.0	7.1	7.4	7.1	7.2
25	8.7	7.3	---	7.2	6.9	---	7.0	6.7	6.9	7.5	6.9	7.1
26	8.5	7.3	7.9	---	---	---	7.1	6.9	7.0	7.7	6.9	---
27	8.0	7.1	7.6	---	---	---	7.3	6.8	7.0	---	---	---
28	8.2	6.9	7.4	---	---	---	7.7	6.8	7.3	---	---	---
29	7.6	6.9	7.2	---	---	---	7.6	7.1	7.4	---	---	---
30	8.1	6.8	7.3	---	---	---	7.5	7.1	7.2	---	---	---
31	---	---	---	---	---	---	7.5	7.1	7.2	---	---	---
MONTH	8.7	6.4	---	---	---	---	---	---	---	8.0	6.4	7.1

01457000 MUSCONETCONG RIVER NEAR BLOOMSBURY, N. J.

LOCATION.--Lat 40°40'20", long 75°03'40", Warren County, at gaging station at bfidge, 1.5 mi (2.4 km) upstream from Bloomsbury, and 9.5 mi (15.3 km) upstream from mouth.

DRAINAGE AREA.--143 mi² (370 km²).

PERIOD OF RECORD.--Chemical analyses: Water years 1963-72 (partial-record station), October 1972 to September 1975.

REMARKS.--Miscellaneous storm sediment samples collected during water years 1958, 71-74.

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	TEMPERATURE (DEG C)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	DISSOLVED OXYGEN (MG/L)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L)	IMMEDIATE COLIFORM (COL. PER 100 ML)	FECAL COLIFORM (EC BROTH) (MPN)	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)	TURBIDITY (JTU)
OCT. 16...	1010	336	12.0	246	7.3	10.0	4.2	--	--	36000	29000	--
NOV. 19...	0940	165	9.0	266	8.3	13.2	1.5	250	--	120	50	--
MAR. 25...	1525	476	9.5	204	8.4	12.2	2.3	--	49	30	--	5
APR. 10...	1115	260	11.5	270	8.5	13.6	.5	--	49	26	--	2
MAY 07...	1515	420	15.1	222	8.3	10.0	1.0	--	>2400	250	--	12
JUNE 04...	1555	231	18.5	250	8.6	10.4	1.5	--	2400	260	--	2
JULY 09...	1600	160	20.0	287	8.5	9.7	1.0	--	2400	1100	--	2
AUG. 12...	1315	245	20.5	287	7.6	11.0	1.0	--	1300	--	--	1
SEP. 09...	1415	245	18.5	286	--	10.6	.7	--	--	136	--	2

DATE	COLOR (PLATINUM-COBALT UNITS)	TOTAL ORGANIC NITROGEN (N) (MG/L)	AMMONIA NITROGEN (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL ORTHO PHOSPHORUS (P) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)	ALKALINITY AS CACO3 (MG/L)	CARBONATE (CO3) (MG/L)
OCT. 16...	--	--	--	--	--	--	--	--	--	--	--	--
NOV. 19...	--	.13	.13	.00	1.5	.26	1.8	.06	.05	4.5	--	--
MAR. 25...	12	.22	.04	.01	1.2	.26	1.5	.06	.03	2.8	64	0
APR. 10...	4	.22	.05	.01	1.1	.27	1.4	.05	.03	--	83	0
MAY 07...	9	.56	.06	.03	.87	.62	1.5	.11	.05	9.7	64	0
JUNE 04...	5	.70	.00	.03	1.4	.70	2.1	.10	.06	10	83	0
JULY 09...	1	.21	.01	.01	1.9	.22	2.1	.08	.05	1.8	105	0
AUG. 12...	2	.23	.00	.01	1.8	.23	2.0	.05	.05	2.5	101	0
SEP. 09...	3	.24	.00	.01	1.3	.24	1.5	.06	.04	5.4	86	--

DATE	BICARBONATE (HCO3) (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	TOTAL NONFILTRABLE RESIDUE (MG/L)
OCT. 16...	--	--	--	--	--	--	--	--	--	--	--	--
NOV. 19...	--	--	--	--	--	--	--	--	--	--	--	--
MAR. 25...	78	.5	90	26	22	8.6	9.5	.8	15	18	127	3
APR. 10...	101	.5	110	31	26	12	9.4	1.1	18	19	167	3
MAY 07...	78	.6	87	23	20	9.1	9.3	1.1	15	16	135	46
JUNE 04...	101	.4	110	27	24	12	9.0	1.3	14	14	160	11
JULY 09...	128	.6	130	24	32	12	8.0	1.7	14	22	186	6
AUG. 12...	123	4.9	130	25	29	13	7.5	1.4	11	15	181	1
SEP. 09...	105	--	110	26	25	12	10	1.4	17	17	166	7

01463500 DELAWARE RIVER AT TRENTON, N. J. (MORRISVILLE, PA.)

(National stream-quality accounting network, Pesticide program, and Radiochemical program station)

LOCATION.--Lat 40°13'18", long 74°46'42", Mercer County, water-quality recorder located at raw-water intake of the Trenton Water Department and at gaging station, about 600 ft (183 m) upstream from bridge on Calhoun Street in Trenton.

DRAINAGE AREA.--6,780 mi² (17,560 km²).

PERIOD OF RECORD.--Chemical analyses: October 1944 to September 1975.
Water temperatures: October 1944 to September 1975.
Sediment records: September 1949 to September 1975.

EXTREMES.--1974-75:
Specific conductance: Maximum, 247 micromhos Aug. 5; minimum, 86 micromhos Apr. 7.
Dissolved oxygen: Maximum, 15.5 mg/l May 3; minimum, 6.4 mg/l July 12.
Water temperatures: Maximum, 30.0°C Aug. 3; minimum, 0.5°C Jan. 18, 21, 1975.
pH: Maximum, 9.9 Nov. 1; minimum, 6.1 Nov. 5.
Sediment concentrations: Maximum daily, 520 mg/l July 21; minimum daily, 1.0 mg/l Feb. 17, many days in April and May 1, 2.
Sediment discharge: Maximum daily, 57,700 tons, Dec. 9, minimum daily, 23 tons Sept. 10.
Period of record:
Specific conductance: Maximum, 400 micromhos Jan. 24, 1959; minimum, 50 micromhos Mar. 19, 1945.
Dissolved oxygen (1962-75): Maximum, 17.3 mg/l July 9, 1974; minimum, 4.0 mg/l Nov. 9, 1972.
Water temperatures: Maximum, 34.0°C June 18, 1957; minimum, freezing point on many days during winter months.
pH (1968-75): Maximum, 10.2 July 5, 6, 1971, June 14, 15, 1974; minimum, 5.3 June 22, 1972.
Sediment concentrations (1949-75): Maximum daily, 1,720 mg/l Nov. 26, 1950; minimum daily, less than 0.5 mg/l Oct. 21, 1952 and Jan. 18, 1970.
Sediment discharge (1949-75): Maximum daily, 1,087,000 tons Aug. 20, 1955; minimum daily, less than 0.5 tons Oct. 21, 1952.

REMARKS.--Missing continuous water-quality records are the result of malfunction of sensor or sampling mechanism, or damage to the Trenton Filtration Plant. A suspended-sediment particle-size analysis for the 1974 water year is included in this publication since it was not possible to have it published in the 1974 water year report.

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	TEMPERATURE (DEG C)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	DISSOLVED OXYGEN (MG/L)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L)	IMMEDIATE COLIFORM (COL. PER 100 ML)	FECAL COLIFORM (EC BROTH) (MPN)	FECAL COLIFORM (COL. PER 100 ML)
OCT. 22...	1100	6710	9.0	162	8.4	12.4	1.8	830	--	85
NOV. 11...	1200	5330	11.7	196	8.1	12.4	1.8	--	--	--
DEC. 23...	1100	13700	3.9	140	8.0	13.2	--	100	--	164
JAN. 15...	1410	20100	2.1	110	8.4	--	2.1	432	--	128
FEB. 19...	1025	14300	4.0	178	8.3	--	4.8	165	--	288
MAR. 18...	0915	11800	5.1	150	8.3	12.4	1.3	--	22	124
APR. 11...	0850	10800	6.3	120	7.5	12.0	1.7	--	79	820
MAY 28...	1030	10700	21.0	135	7.8	9.4	2.0	--	79	32
JUNE 19...	0930	14200	22.9	124	7.7	9.2	3.1	--	920	4020
JULY 22...	1315	15900	24.2	151	7.2	8.2	--	--	--	3920
AUG. 15...	0900	5460	25.6	226	8.6	9.9	3.0	--	80	32
SEP. 17...	1115	4500	17.4	224	7.1	10.6	.6	--	79	20

DATE	STREPTOCOCCI (COLONIES PER 100 ML)	TURBIDITY (JTU)	COLOR (PLATINUM-COBALT UNITS)	TOTAL ORGANIC NITROGEN (N) (MG/L)	AMMONIA NITROGEN (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)
OCT. 22...	20	2	--	.18	.13	.03	.77	.31	1.1	.12
NOV. 11...	--	5	--	.28	.08	.05	.82	.36	1.2	.10
DEC. 23...	112	5	--	.25	.17	.00	.78	.42	1.2	.06
JAN. 15...	60	6	--	.25	.13	.01	.57	.38	.96	.05
FEB. 19...	220	5	--	.20	.33	.02	.95	.53	1.5	.11
MAR. 18...	10	2	--	.00	.20	.03	.86	.20	1.1	.05
APR. 11...	812	3	4	.12	.08	.01	.72	.20	.93	.05
MAY 28...	64	5	9	.34	.07	.04	.79	.41	1.2	.08
JUNE 19...	250	5	7	.52	.00	.02	.67	.52	1.2	.09
JULY 22...	2250	20	15	.71	.03	.04	.94	.74	1.7	.14
AUG. 15...	--	3	2	.07	.28	.02	1.1	.35	1.5	.09
SEP. 17...	--	4	2	.73	.01	.04	1.1	.74	1.8	.08

01463500 DELAWARE RIVER AT TRENTON, N. J. (MORRISVILLE, PA.)--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TOTAL ORTHO PHOS-PHORUS (P) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	CAR-BONATE (CO3) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	HARD-NESS (CA+MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)
OCT. 22...	.06	2.7	30	--	46	.3	65	27	16	6.0
NOV. 11...	.08	8.0	42	0	51	.6	69	27	17	6.4
DEC. 23...	.04	4.0	28	0	34	.5	54	26	14	4.5
JAN. 15...	.02	4.3	17	0	21	.1	26	9	7.0	2.1
FEB. 19...	.04	2.4	37	0	45	.4	63	26	17	5.0
MAR. 18...	.03	.6	34	--	41	.3	57	24	15	4.8
APR. 11...	.03	.8	30	--	36	1.8	42	13	13	2.4
MAY 28...	.03	4.3	33	--	40	1.0	50	17	13	4.2
JUNE 19...	.01	5.6	27	0	33	1.1	47	20	12	4.1
JULY 22...	.04	5.4	44	0	54	5.5	58	13	13	6.1
AUG. 15...	.08	3.1	56	0	68	.3	130	73	22	18
SEP. 17...	.06	5.7	57	0	69	8.8	87	31	21	8.5

DATE	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	TOTAL FILT-RABLE RESIDUE (MG/L)	TOTAL NON-FILT-RABLE RESIDUE (MG/L)
OCT. 22...	6.5	2.0	9.9	24	.1	3.5	98	91	--	--
NOV. 11...	7.5	1.0	9.3	24	.2	1.2	105	93	--	--
DEC. 23...	6.2	1.0	6.3	18	.1	4.6	76	72	--	--
JAN. 15...	5.0	.8	5.9	14	.1	3.6	75	49	--	--
FEB. 19...	7.9	1.6	12	23	.2	5.1	107	94	--	--
MAR. 18...	7.1	1.3	11	43	.1	4.3	109	107	100	6
APR. 11...	4.7	1.0	10	17	.3	3.2	104	60	--	9
MAY 28...	5.1	1.0	7.5	19	.1	3.2	83	74	--	13
JUNE 19...	5.2	1.3	9.4	19	.2	4.1	75	72	--	15
JULY 22...	5.1	1.9	7.0	20	--	--	117	--	--	8
AUG. 15...	7.2	1.7	9.9	29	.2	3.6	135	125	--	11
SEP. 17...	6.9	1.7	7.9	23	.0	3.5	147	107	--	22

01463500 DELAWARE RIVER AT TRENTON, N. J. (MORRISVILLE, PA.)--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TOTAL IRON (FE) (UG/L)	DISSOLVED IRON (FE) (UG/L)	TOTAL MANGANESE (MN) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	SUSPENDED MANGANESE (MN) (UG/L)	TOTAL ARSENIC (AS) (UG/L)	DISSOLVED ARSENIC (AS) (UG/L)	SUSPENDED ARSENIC (AS) (UG/L)	TOTAL CADMIUM (CD) (UG/L)	DISSOLVED CADMIUM (CD) (UG/L)	SUSPENDED CADMIUM (CD) (UG/L)
DEC. 23...	1000	80	150	70	80	2	2	0	1	1	0
MAR. 18...	300	30	40	40	0	1	1	0	1	1	0
JUNE 19...	500	70	70	20	50	0	0	0	1	1	0
SEP. 17...	170	20	10	10	0	1	0	1	0	0	0

DATE	TOTAL CHROMIUM (CR) (UG/L)	DISSOLVED CHROMIUM (CR) (UG/L)	SUSPENDED CHROMIUM (CR) (UG/L)	TOTAL COBALT (CO) (UG/L)	DISSOLVED COBALT (CO) (UG/L)	SUSPENDED COBALT (CO) (UG/L)	TOTAL COPPER (CU) (UG/L)	DISSOLVED COPPER (CU) (UG/L)	SUSPENDED COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	DISSOLVED LEAD (PB) (UG/L)
DEC. 23...	10	0	10	0	0	0	10	10	0	5	4
MAR. 18...	20	20	0	1	1	0	30	30	0	5	4
JUNE 19...	70	70	0	1	0	1	30	30	0	15	4
SEP. 17...	10	0	10	0	0	0	10	10	0	12	12

DATE	SUSPENDED LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)	DISSOLVED MERCURY (HG) (UG/L)	SUSPENDED MERCURY (HG) (UG/L)	TOTAL SELENIUM (SE) (UG/L)	DISSOLVED SELENIUM (SE) (UG/L)	SUSPENDED SELENIUM (SE) (UG/L)	TOTAL ZINC (ZN) (UG/L)	DISSOLVED ZINC (ZN) (UG/L)	SUSPENDED ZINC (ZN) (UG/L)
DEC. 23...	1	<.5	<.5	.0	0	0	0	80	40	40
MAR. 18...	1	1.3	1.3	.0	1	0	1	60	60	0
JUNE 19...	11	.5	.5	.0	1	0	1	60	40	20
SEP. 17...	0	<.5	<.5	.0	0	0	0	30	20	10

RADIOCHEMICAL ANALYSES, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	DISSOLVED GROSS BETA AS CS-137 (PC/L)	SUSPENDED GROSS BETA AS CS-137 (PC/L)	DISSOLVED GROSS BETA AS SR90 /Y90 (PC/L)	SUSPENDED GROSS BETA AS SR90 /Y90 (PC/L)	DISSOLVED RA-226 (RADON METHOD) (PC/L)	DISSOLVED URANIUM (U) (UG/L)	DISSOLVED GROSS ALPHA AS U-NAT. (UG/L)	SUSPENDED GROSS ALPHA AS U-NAT. (UG/L)
MAR. 18...	2.4	<.4	1.9	<.4	.03	.08	1.6	.4

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	TEMPERATURE (DEG C)	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)	SUS. SED. FALL DIAM. % FINER THAN .002 MM	SUS. SED. FALL DIAM. % FINER THAN .004 MM
AUG. 19...	1200	25.0	7210	235	4580	24	33

DATE	SUS. SED. FALL DIAM. % FINER THAN .008 MM	SUS. SED. FALL DIAM. % FINER THAN .016 MM	SUS. SED. FALL DIAM. % FINER THAN .031 MM	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM	SUS. SED. SIEVE DIAM. % FINER THAN .125 MM	SUS. SED. SIEVE DIAM. % FINER THAN .250 MM
AUG. 19...	45	61	79	94	99	100

01463500 DELAWARE RIVER AT TRENTON, N. J. (MORRISVILLE, PA.)--Continued

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	TEMPER-ATURE (DEG C)	INSTAN-TANEOUS DIS-CHARGE (CFS)	SUS-PENDED SEDI-MENT (MG/L)	SUS-PENDED SEDI-MENT DIS-CHARGE (T/DAY)	SUS. SED. FALL DIAM. % FINER THAN .002 MM	SUS. SED. FALL DIAM. % FINER THAN .004 MM	SUS. SED. FALL DIAM. % FINER THAN .008 MM
OCT.								
22...	1100	9.0	6710	7	127	--	--	--
NOV.								
11...	1200	11.7	5330	4	58	--	--	--
DEC.								
18...	1200	5.0	72000	152	29900	24	37	50
23...	1100	3.9	13700	13	481	--	--	--
FEB.								
19...	1025	4.0	14300	6	232	--	--	--
24...	1700	6.0	20000	304	16400	17	25	37
MAR.								
18...	0915	5.1	11000	4	127	--	--	--
APR.								
11...	0850	6.3	18800	6	305	--	--	--
MAY								
28...	1030	21.0	10700	7	202	--	--	--
JUNE								
19...	0930	22.9	14200	36	1380	--	--	--
JULY								
14...	0936	--	25900	245	17100	--	--	--
22...	1315	24.2	15900	108	4640	--	--	--
AUG.								
15...	0900	25.6	5460	7	103	--	--	--
SEP.								
17...	1115	17.4	4580	4	49	--	--	--

DATE	SUS. SED. FALL DIAM. % FINER THAN .016 MM	SUS. SED. FALL DIAM. % FINER THAN .031 MM	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM	SUS. SED. SIEVE DIAM. % FINER THAN .125 MM	SUS. SED. SIEVE DIAM. % FINER THAN .250 MM	SUS. SED. SIEVE DIAM. % FINER THAN .500 MM	SUS. SED. SIEVE DIAM. % FINER THAN 1.00 MM
OCT.							
22...	--	--	100	--	--	--	--
NOV.							
11...	--	--	100	--	--	--	--
DEC.							
18...	64	77	90	97	100	--	--
23...	--	--	--	--	--	--	--
FEB.							
19...	--	--	100	--	--	--	--
24...	51	68	86	92	97	9	100
MAR.							
18...	--	--	100	--	--	--	--
APR.							
11...	--	--	100	--	--	--	--
MAY							
28...	--	--	100	--	--	--	--
JUNE							
19...	--	--	92	--	--	--	--
JULY							
14...	--	--	93	--	--	--	--
22...	--	--	93	--	--	--	--
AUG.							
15...	--	--	100	--	--	--	--
SEP.							
17...	--	--	100	--	--	--	--

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

PERIPHYTON

DATE	EXPOSURE LENGTH (DAYS)	BIOMASS DRY WEIGHT (G/SQ M)	BIOMASS ASH WEIGHT (G/SQ M)	CHLORO-PHYLL A (MG/SQ M)	CHLORO-PHYLL B (MG/SQ M)	BIOMASS PIGMENT RATIO	SAMPLING METHOD
FEB. 21...	35	15	14	2.2	.3	450	POLY-ETHYLENE STRIP
MAR. 18...	27	13	12	3.0	.4	330	
MAY 28...	28	3.6	2.1	15	4.2	100	
JUNE 30...	33	14	13	12	1.4	110	

OCT. 22, 1974
1100 HOURS

IDENTIFICATION OF PHYTOPLANKTON

1,200 CELLS/ML

	_ORGANISM__NAME_____________	_COMMON__NAME______	CELLS/ML	PER_CENT
	CHLOROPHYTA	GREEN ALGAE		
	.CHLOROPHYCEAE			
	..CHLOROCOCCALES			
	...OOCYSTACEAE			
	....ANKISTRODESMUS		30	2
	...SCENEDESMACEAE			
D	....SCENEDESMUS		210	17
	..VOLVOCALES			
	...CHLAMYDOMONADACEAE			
	....CHLAMYDOMONAS		45	4
	..ZYGNEMATALES			
	...DESMIDIACEAE	PLACODERM DESMIDS		
	....COSMARIUM		30	2
	CHRYSOPHYTA			
	.BACILLARIOPHYCEAE	DIATOMS		
	..CENTRALES	CENTRIC		
	...COSCINODISCACEAE			
D	....CYCLOTELLA		250	20
	..PENNALES	PENNATE		
	...ACHNANTHACEAE			
	....ACHNANTHES		15	1
	...DIATOMACEAE			
	....DIATOMA		75	6
	...FRAGILARIACEAE			
D	....SYNEDRA		210	17
	...NAVICULACEAE	NAVICULOID		
	....NAVICULA		100	8
	...NITZSCHIACEAE			
	....NITZSCHIA		90	7
	CYANOPHYTA	BLUE-GREEN ALGAE		
	.MYXOPHYCEAE			
	..OSCILLATORIALES	FILAMENTOUS		
	...NOSTOCACEAE			
	....ANABAENA		180	14

NOTE: D - DOMINANT ORGANISM: GREATER OR EQUAL TO 15%
ANALYSIS METHOD: SEDGWICK-RAFTER CHAMBER , 200-X MICROSCOPE
DIVERSITY INDICES, BASED ON ACTUAL COUNTS:
PHYL/DIV 1.346
CLASS 1.346
ORDER 2.161
FAMILY 3.066
GENERA 3.066

01463500 DELAWARE RIVER AT TRENTON, N. J. (MORRISVILLE, PA.)--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA
WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

NOV. 11, 1974
1200 HOURS

IDENTIFICATION OF PHYTOPLANKTON

3,400 CELLS/ML

ORGANISM_NAME	COMMON_NAME	CELLS/ML	PER_CENT
CHLOROPHYTA	GREEN ALGAE		
.CHLOROPHYCEAE			
..CHLOROCOCCALES			
...OOCYSTACEAE			
....SELENASTRUM		41	1
....TETRAEDRON		41	1
...SCENEDESMACEAE			
D ....SCENEDESMUS		500	15
..ZYGNEMATALES			
...DESMIDIACEAE	PLACODERM DESMIDS		
....COSMARIUM		41	1
CHRYSOPHYTA			
.BACILLARIOPHYCEAE	DIATOMS		
..CENTRALES	CENTRIC		
...COSCINODISCACEAE			
....CYCLOTELLA		83	2
....MELOSIRA		210	6
..PENNALES	PENNATE		
...ACHNANTHACEAE			
D ....ACHNANTHES		910	27
...CYMBELLACEAE			
....CYMBELLA		41	1
...FRAGILARIACEAE			
....FRAGILARIA		170	5
...NAVICULACEAE	NAVICULOID		
D ....NAVICULA		700	21
...NITZSCHIACEAE			
D ....NITZSCHIA		680	20

NOTE: D - DOMINANT ORGANISM: GREATER OR EQUAL TO 15%
ANALYSIS METHOD: SEDGWICK-RAFTER CHAMBER , 200-X MICROSCOPE
DIVERSITY INDICES, BASED ON ACTUAL COUNTS:
PHYL/DIV 0.686
CLASS 0.686
ORDER 1.146
FAMILY 2.647
GENERA 2.745

DEC. 23, 1974
1100 HOURS

IDENTIFICATION OF PHYTOPLANKTON

780 CELLS/ML

ORGANISM_NAME	COMMON_NAME	CELLS/ML	PER_CENT
CHLOROPHYTA	GREEN ALGAE		
.CHLOROPHYCEAE			
..CHLOROCOCCALES			
...OOCYSTACEAE			
....ANKISTRODESMUS		11	1
...SCENEDESMACEAE			
....SCENEDESMUS		21	3
CHRYSOPHYTA			
.BACILLARIOPHYCEAE	DIATOMS		
..CENTRALES	CENTRIC		
...ANAULACEAE			
....TERPSINOE		11	1
...COSCINODISCACEAE			
....CYCLOTELLA		32	4
....MELOSIRA		64	8
..PENNALES	PENNATE		
...ACHNANTHACEAE			
....ACHNANTHES		110	14
....COCCONEIS		11	1
...CYMBELLACEAE			
....CYMBELLA		11	1
...DIATOMACEAE			
....DIATOMA		11	1
...FRAGILARIACEAE			
....ASTERIONELLA		32	4
....SYNEDRA		43	5
...GOMPHONEMATACEAE			
....GOMPHONEMA		11	1
...NAVICULACEAE	NAVICULOID		
....NAVICULA		64	8
...NITZSCHIACEAE			
....NITZSCHIA		43	5
...SURIRELLACEAE			
....SURIRELLA		11	1
CYANOPHYTA	BLUE-GREEN ALGAE		
.MYXOPHYCEAE			
..OSCILLATORIALES	FILAMENTOUS		
...OSCILLATORIACEAE			
D ....LYNGBYA		300	38

NOTE: D - DOMINANT ORGANISM: GREATER OR EQUAL TO 15%
ANALYSIS METHOD: SEDGWICK-RAFTER CHAMBER , 200-X MICROSCOPE
DIVERSITY INDICES, BASED ON ACTUAL COUNTS:
PHYL/DIV 1.178
CLASS 1.178
ORDER 1.634
FAMILY 2.815
GENERA 3.089

01463500 DELAWARE RIVER AT TRENTON, N. J. (MORRISVILLE, PA.)--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA
WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

JAN. 15, 1975
1410 HOURS

IDENTIFICATION OF PHYTOPLANKTON

1,000 CELLS/ML

	_ORGANISM__NAME	_COMMON__NAME	CELLS/ML	PER_CENT
	CHLOROPHYTA	GREEN ALGAE		
	.CHLOROPHYCEAE			
	..VOLVOCALES			
	...CHLAMYDOMONADACEAE			
	....CHLAMYDOMONAS		22	2
	CHRYSOPHYTA			
	.BACILLARIOPHYCEAE	DIATOMS		
	..CENTRALES	CENTRIC		
	...COSCINODISCACEAE			
D	....MELOSIRA		170	17
	..PENNALES	PENNATE		
	...ACHNANTHACEAE			
D	....ACHNANTHES		150	15
	....COCCONEIS		22	2
	...CYMBELLACEAE			
	....CYMBELLA		65	7
	...FRAGILARIACEAE			
D	....ASTERIONELLA		260	26
	....FRAGILARIA		22	2
	...GOMPHONEMATACEAE			
	....GOMPHONEMA		44	4
	...NAVICULACEAE	NAVICULOID		
	....NAVICULA		130	13
	...NITZSCHIACEAE			
	....NITZSCHIA		87	9
	...ACHNANTHACEAE			
	....RHOICOSPHENIA		22	2

NOTE: D - DOMINANT ORGANISM: GREATER OR EQUAL TO 15%
ANALYSIS METHOD: SEDGWICK-RAFTER CHAMBER , 200-X MICROSCOPE
DIVERSITY INDICES, BASED ON ACTUAL COUNTS:
PHYL/DIV 0.151
CLASS 0.151
ORDER 0.812
FAMILY 2.776
GENERA 2.981

FEB. 19, 1975
1025 HOURS

IDENTIFICATION OF PHYTOPLANKTON

960 CELLS/ML

	_ORGANISM__NAME	_COMMON__NAME	CELLS/ML	PER_CENT
	CHRYSOPHYTA			
	.BACILLARIOPHYCEAE	DIATOMS		
	..CENTRALES	CENTRIC		
	...COSCINODISCACEAE			
	....CYCLOTELLA		47	5
	....MELOSIRA		70	7
	....STEPHANODISCUS		23	2
	..PENNALES	PENNATE		
	...CYMBELLACEAE			
	....CYMBELLA		47	5
	...FRAGILARIACEAE			
	....ASTERIONELLA		70	7
	....SYNEDRA		94	10
	...GOMPHONEMATACEAE			
	....GOMPHONEMA		47	5
	...NAVICULACEAE	NAVICULOID		
D	....NAVICULA		360	37
	...NITZSCHIACEAE			
	....NITZSCHIA		94	10
	...ACHNANTHACEAE			
	....RHOICOSPHENIA		120	12

NOTE: D - DOMINANT ORGANISM: GREATER OR EQUAL TO 15%
ANALYSIS METHOD: SEDGWICK-RAFTER CHAMBER , 200-X MICROSCOPE
DIVERSITY INDICES, BASED ON ACTUAL COUNTS:
ORDER 0.601
FAMILY 2.495
GENERA 2.877

01463500 DELAWARE RIVER AT TRENTON, N. J. (MORRISVILLE, PA.)--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA
WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

MAR. 18, 1975
0915 HOURS

IDENTIFICATION OF PHYTOPLANKTON

500 CELLS/ML

	_ORGANISM__NAME_______________	_COMMON__NAME_______	CELLS/ML	PER_CENT
	CHLOROPHYTA	GREEN ALGAE		
	.CHLOROPHYCEAE			
	..CHLOROCOCCALES			
	...OOCYSTACEAE			
	....CHLORELLA		17	3
	...SCENEDESMACEAE			
	....SCENEDESMUS		35	7
	CHRYSOPHYTA			
	.BACILLARIOPHYCEAE	DIATOMS		
	..CENTRALES	CENTRIC		
	...COSCINODISCACEAE			
	....CYCLOTELLA		17	3
	..PENNALES	PENNATE		
	...ACHNANTHACEAE			
	....ACHNANTHES		61	12
	...CYMBELLACEAE			
	....CYMBELLA		17	3
	...EUNOTIACEAE			
	....EUNOTIA		9	2
	...FRAGILARIACEAE			
	....ASTERIONELLA		61	12
	....HANNAEA		9	2
D	....SYNEDRA		87	17
	...GOMPHONEMATACEAE			
	....GOMPHONEMA		52	10
	...MERIDIONACEAE			
	....MERIDION		9	2
	...NAVICULACEAE	NAVICULOID		
D	....NAVICULA		78	16
	...NITZSCHIACEAE			
	....NITZSCHIA		43	9
	...SURIRELLACEAE			
	....SURIRELLA		9	2

NOTE: D - DOMINANT ORGANISM: GREATER OR EQUAL TO 15%
ANALYSIS METHOD: SEDGWICK-RAFTER CHAMBER , 200-X MICROSCOPE
DIVERSITY INDICES, BASED ON ACTUAL COUNTS:
PHYL/DIV 0.480
CLASS 0.480
ORDER 0.691
FAMILY 3.024
GENERA 3.407

APR. 11, 1975
0850 HOURS

IDENTIFICATION OF PHYTOPLANKTON

1,600 CELLS/ML

	_ORGANISM__NAME_______________	_COMMON__NAME_______	CELLS/ML	PER_CENT
	CHLOROPHYTA	GREEN ALGAE		
	.CHLOROPHYCEAE			
	..VOLVOCALES			
	...CHLAMYDOMONADACEAE			
	....CHLAMYDOMONAS		45	3
	..ZYGNEMATALES			
	...DESMIDIACEAE	PLACODERM DESMIDS		
	....DESMIDIUM		23	1
	CHRYSOPHYTA			
	.BACILLARIOPHYCEAE	DIATOMS		
	..CENTRALES	CENTRIC		
	...COSCINODISCACEAE			
	....CYCLOTELLA		68	4
	....MELOSIRA		110	7
	..PENNALES	PENNATE		
	...ACHNANTHACEAE			
	....ACHNANTHES		68	4
	...CYMBELLACEAE			
	....CYMBELLA		45	3
	...FRAGILARIACEAE			
D	....ASTERIONELLA		690	40
	....HANNAEA		23	1
	...GOMPHONEMATACEAE			
	....GOMPHONEMA		23	1
	...NAVICULACEAE	NAVICULOID		
	....NAVICULA		110	7
	...NITZSCHIACEAE			
	....NITZSCHIA		140	8
	...TABELLARIACEAE			
	....TABELLARIA		110	7
	CYANOPHYTA	BLUE-GREEN ALGAE		
	.MYXOPHYCEAE			
	..OSCILLATORIALES	FILAMENTOUS		
	...OSCILLATORIACEAE			
	....OSCILLATORIA		230	14

NOTE: D - DOMINANT ORGANISM: GREATER OR EQUAL TO 15%
ANALYSIS METHOD: SEDGWICK-RAFTER CHAMBER , 200-X MICROSCOPE
DIVERSITY INDICES, BASED ON ACTUAL COUNTS:
PHYL/DIV 0.815
CLASS 0.815
ORDER 1.318
FAMILY 2.739
GENERA 2.930

01463500 DELAWARE RIVPR AT TRENTON, N. J. (MORRISVILLE, PA.)--Continued
QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA
WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

MAY 20, 1975
1030 HOURS

IDENTIFICATION OF PHYTOPLANKTON

21,000 CELLS/ML

```
 _ORGANISM__NAME______________  _COMMON__NAME______  CELLS/ML     PER_CENT
 CHLOROPHYTA
 .CHLOROPHYCEAE                 GREEN ALGAE
 ..CHLOROCOCCALES
 ...OOCYSTACEAE
 ....ANKISTRODESMUS
 ....DICTYOSPHAERIUM                                      930           4
 ...SCENEDESMACEAE                                        410           2
 ....SCENEDESMUS
 ....TETRASTRUM                                         1,700           8
 ..TETRASPORALES                                          410           2
 ...PALMELLACEAE
 ....GLOEOCYSTIS
 ..VOLVOCALES                                             410           2
 ...VOLVOCACEAE
 ....EUDORINA
 CHRYSOPHYTA                                              830           4
 .BACILLARIOPHYCEAE             DIATOMS
 ..CENTRALES                    CENTRIC
 ...COSCINODISCACEAE
D ....CYCLOTELLA
L ....MELOSIRA                                          5,700          27
 ..PENNALES                                                             0
 ...ACHNANTHACEAE               PENNATE
 ....ACHNANTHES
 ...CYMBELLACEAE                                          210           1
 ....CYMBELLA
 ...EUNOTIACEAE                                           830           4
 ....EUNOTIA
 ...FRAGILARIACEAE                                        930           4
 ....FRAGILARIA
L ....SYNEDRA                                             410           2
 ...GOMPHONEMATACEAE                                                    0
L ....GOMPHONEMA
 ...NAVICULACEAE                NAVICULOID                              0
 ....NAVICULA
 ...NITZSCHIACEAE                                         720           3
 ....NITZSCHIA
 ...SURIRELLACEAE                                         310           1
L ....SURIRELLA
 CYANOPHYTA                                                             0
 .MYXOPHYCEAE                   BLUE-GREEN ALGAE
 ..CHROOCOCCALES
 ...CHROOCOCCACEAE              COCCOID
D ....ANACYSTIS
 ..OSCILLATORIALES                                      3,500          17
 ...OSCILLATORIACEAE            FILAMENTOUS
D ....OSCILLATORIA
                                                        3,300          16
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NOTE: D - DOMINANT ORGANISM; GREATER OR EQUAL TO 15%
      L - LESS THEN 1%; MAY NOT HAVE BEEN ACTUALLY COUNTED
      ANALYSIS METHOD: SEDGWICK-RAFTER CHAMBER , 200-X MICROSCOPE
      DIVERSITY INDICES, BASED ON ACTUAL COUNTS:
                        PHYL/DIV 1.526
                           CLASS 1.526
                           ORDER 2.529
                          FAMILY 3.157
                          GENERA 3.338
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JULY 22, 1975
1315 HOURS

IDENTIFICATION OF PHYTOPLANKTON

12,000 CELLS/ML

```
 _ORGANISM__NAME______________  _COMMON__NAME______  CELLS/ML     PER_CENT
 CHLOROPHYTA
 .CHLOROPHYCEAE                 GREEN ALGAE
 ..CHLOROCOCCALES
 ...OOCYSTACEAE
 ....ANKISTRODESMUS
 ...SCENEDESMACEAE                                        150           1
L ....SCENEDESMUS
 CHRYSOPHYTA                                                            0
 .BACILLARIOPHYCEAE
 ..CENTRALES                    DIATOMS
 ...COSCINODISCACEAE            CENTRIC
 ....CYCLOTELLA
L ....MELOSIRA                                            310           3
 ..PENNALES                                                             0
 ...ACHNANTHACEAE               PENNATE
 ....ACHNANTHES
 ...CYMBELLACEAE                                          150           1
 ....CYMBELLA
 ...NAVICULACEAE                NAVICULOID                150           1
 ....NAVICULA
 ...NITZSCHIACEAE                                         310           3
 ....NITZSCHIA
 ...SURIRELLACEAE                                         460           4
L ....SURIRELLA
 CYANOPHYTA
 .MYXOPHYCEAE                   BLUE-GREEN ALGAE                        0
 ..CHROOCOCCALES
 ...CHROOCOCCACEAE              COCCOID
L ....ANACYSTIS
 ..OSCILLATORIALES
 ...NOSTOCACEAE                 FILAMENTOUS                             0
L ....ANABAENA
D ....APHANIZOMENON
                                                                        0
                                                       10,000          87
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NOTE: D - DOMINANT ORGANISM; GREATER OR EQUAL TO 15%
      L - LESS THEN 1%; MAY NOT HAVE BEEN ACTUALLY COUNTED
      ANALYSIS METHOD: SEDGWICK-RAFTER CHAMBER , 200-X MICROSCOPE
      DIVERSITY INDICES, BASED ON ACTUAL COUNTS:
                        PHYL/DIV 0.618
                           CLASS 0.618
                           ORDER 0.707
                          FAMILY 0.875
                          GENERA 0.875
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01463500 DELAWARE RIVER AT TRENTON, N. J. (MORRISVILLE, PA.)--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA
WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
AUG. 15, 1975
0900 HOURS

IDENTIFICATION OF PHYTOPLANKTON

4,900 CELLS/ML

	_ORGANISM__NAME_______________	_COMMON__NAME_______	CELLS/ML	PER_CENT
	CHLOROPHYTA	GREEN ALGAE		
	.CHLOROPHYCEAE			
	..CHLOROCOCCALES			
	...COELASTRACEAE			
D	....COELASTRUM		1,100	22
	...OOCYSTACEAE			
D	....DICTYOSPHAERIUM		1,100	22
L	....OOCYSTIS			0
	...SCENEDESMACEAE			
	....SCENEDESMUS		600	12
	CHRYSOPHYTA			
	.BACILLARIOPHYCEAE	DIATOMS		
	..CENTRALES	CENTRIC		
	...COSCINODISCACEAE			
	....CYCLOTELLA		140	3
	....MELOSIRA		110	2
	..PENNALES	PENNATE		
	...ACHNANTHACEAE			
	....ACHNANTHES		110	2
L	....COCCONEIS			0
	...CYMBELLACEAE			
	....CYMBELLA		27	1
	...FRAGILARIACEAE			
	....FRAGILARIA		110	2
	....SYNEDRA		140	3
	...GOMPHONEMATACEAE			
L	....GOMPHONEMA			0
	...NAVICULACEAE	NAVICULOID		
	....NAVICULA		350	7
	...NITZSCHIACEAE			
	....NITZSCHIA		300	6
	CYANOPHYTA	BLUE-GREEN ALGAE		
	.MYXOPHYCEAE			
	..CHROOCOCCALES	COCCOID		
	...CHROOCOCCACEAE			
	....AGMENELLUM		430	9
	..OSCILLATORIALES	FILAMENTOUS		
	...OSCILLATORIACEAE			
	....OSCILLATORIA		320	7

NOTE: D - DOMINANT ORGANISM; GREATER OR EQUAL TO 15%
L - LESS THEN 1%; MAY NOT HAVE BEEN ACTUALLY COUNTED
ANALYSIS METHOD: SEDGWICK-RAFTER CHAMBER , 200-X MICROSCOPE
DIVERSITY INDICES, BASED ON ACTUAL COUNTS:
PHYL/DIV 1.395
CLASS 1.395
ORDER 1.737
FAMILY 3.062
GENERA 3.161

01463500 DELAWARE RIVER AT TRENTON, N. J. (MORRISVILLE, PA.)--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA
WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
SEP. 17, 1975
1115 HOURS

IDENTIFICATION OF PHYTOPLANKTON

5,000 CELLS/ML

	_ORGANISM__NAME	_COMMON__NAME	CELLS/ML	PER_CENT
	CHLOROPHYTA	GREEN ALGAE		
	.CHLOROPHYCEAE			
	..CHLOROCOCCALES			
	...HYDRODICTYACEAE			
L	....PEDIASTRUM			0
	...OOCYSTACEAE			
	....ANKISTRODESMUS		180	4
	....KIRCHNERIELLA		180	4
L	....OOCYSTIS			0
	...SCENEDESMACEAE			
L	....ACTINASTRUM			0
L	....CRUCIGENIA			0
	....SCENEDESMUS		580	12
	..TETRASPORALES			
	...PALMELLACEAE			
	....SPHAEROCYSTIS		140	3
	..ZYGNEMATALES			
	...DESMIDIACEAE	PLACODERM DESMIDS		
	....COSMARIUM		36	1
	CHRYSOPHYTA			
	.BACILLARIOPHYCEAE	DIATOMS		
	..CENTRALES	CENTRIC		
	...COSCINODISCACEAE			
	....CYCLOTELLA		140	3
	....MELOSIRA		650	13
	..PENNALES	PENNATE		
	...ACHNANTHACEAE			
	....ACHNANTHES		540	11
	...CYMBELLACEAE			
	....CYMBELLA		36	1
	...DIATOMACEAE			
	....DIATOMA		36	1
	...FRAGILARIACEAE			
	....FRAGILARIA		140	3
	....HANNAEA		36	1
	....SYNEDRA		36	1
	...GOMPHONEMATACEAE			
	....GOMPHONEMA		72	1
	...NAVICULACEAE	NAVICULOID		
	....FRUSTULIA		36	1
	....NAVICULA		110	2
	...NITZSCHIACEAE			
	....NITZSCHIA		36	1
	CYANOPHYTA	BLUE-GREEN ALGAE		
	.MYXOPHYCEAE			
	..CHROOCOCCALES	COCCOID		
	...CHROOCOCCACEAE			
D	....ANACYSTIS		870	17
D	....GOMPHOSPHAERIA		830	17
	..OSCILLATORIALES	FILAMENTOUS		
	...NOSTOCACEAE			
	....ANABAENA		290	6

NOTE: D - DOMINANT ORGANISM: GREATER OR EQUAL TO 15%
L - LESS THEN 1%: MAY NOT HAVE BEEN ACTUALLY COUNTED
ANALYSIS METHOD: SEDGWICK-RAFTER CHAMBER , 200-X MICROSCOPE
DIVERSITY INDICES, BASED ON ACTUAL COUNTS:
PHYL/DIV 1.543
CLASS 1.543
ORDER 2.322
FAMILY 2.960
GENERA 3.560

01463500 DELAWARE RIVER AT TRENTON, N. J. (MORRISVILLE, PA.)--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

	OCTOBER			NOVEMBER			DECEMBER		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	19900	60	3220	5160	4	56	8160	4	88
2	17500	39	1840	6030	4	65	10400	8	225
3	14500	21	822	6090	3	49	11700	12	379
4	12300	13	432	6010	3	49	11900	9	289
5	10800	11	321	5690	4	61	11200	7	212
6	9730	10	263	5630	4	61	10100	10	273
7	8850	9	215	5180	3	42	8710	7	165
8	8150	7	154	5920	2	32	12100	40	1310
9	7600	5	103	6280	2	34	49700	430	57700
10	7070	5	95	5950	2	32	69000	190	35400
11	6720	4	73	5310	3	43	47700	70	9020
12	7030	3	57	5360	3	43	35700	60	5780
13	6980	3	57	8160	17	375	28200	21	1600
14	6820	4	74	12800	27	933	23100	15	936
15	6090	5	82	18000	55	2670	20100	13	706
16	8030	26	564	15200	23	944	22600	45	2750
17	11300	31	946	13200	9	321	24900	52	3500
18	9810	15	397	11900	7	225	23400	26	1640
19	10300	11	306	11100	4	120	21200	17	973
20	9480	7	179	10500	3	85	18600	13	653
21	7510	6	122	10400	3	84	16900	9	411
22	6660	7	126	11900	7	225	15400	8	333
23	6690	7	126	14400	12	467	13600	7	257
24	6700	7	127	12000	10	324	12600	7	238
25	6110	6	99	10800	8	233	12800	7	242
26	5960	5	80	10600	7	200	13300	6	215
27	5800	5	78	10500	6	170	12700	6	206
28	5350	4	58	9840	6	159	12700	6	206
29	5260	4	57	9090	5	123	11700	5	158
30	5310	3	43	8620	3	70	10500	5	142
31	5370	3	43	---	---	---	9990	6	162
MONTH	265660	---	11159	277620	---	8295	610660	---	126149

	JANUARY			FEBRUARY			MARCH		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	10800	8	233	22800	8	492	38700	42	4390
2	11200	8	242	20200	7	382	32100	21	1820
3	10300	8	222	18300	5	247	25700	18	1250
4	9930	8	214	16700	5	225	23000	11	683
5	9090	8	196	16000	4	173	19800	7	374
6	8200	8	177	15300	4	165	17800	5	240
7	8680	7	164	15000	4	162	16700	7	316
8	9580	6	155	14900	3	121	15900	6	258
9	14400	53	2060	13500	2	73	15000	4	162
10	20600	56	3110	11600	2	63	13600	3	110
11	24900	29	1950	9780	3	79	12300	4	133
12	25800	14	975	10800	5	146	13000	3	105
13	35900	37	3590	9780	3	79	13700	2	74
14	36200	24	2350	9780	4	106	13500	2	73
15	29100	7	550	10100	2	55	13600	3	110
16	24200	6	392	9910	2	54	13500	3	109
17	21000	4	227	9840	1	27	12800	2	69
18	19900	9	484	10800	4	117	11700	2	63
19	20100	11	597	14300	9	347	15400	10	416
20	20600	9	501	15300	10	413	36400	210	20600
21	17600	5	238	13800	7	261	52600	135	19200
22	15700	4	170	12600	5	170	49100	55	7290
23	14100	3	114	12700	5	171	37700	23	2340
24	13900	3	113	19400	60	3140	30900	12	1000
25	14800	12	480	65600	290	51400	32100	11	953
26	20000	18	972	88000	230	54600	32300	10	872
27	21300	13	748	65900	95	16900	29700	9	722
28	22000	10	594	49600	55	7370	25900	7	490
29	21500	9	522	---	---	---	22000	6	356
30	22500	12	729	---	---	---	20200	7	382
31	23900	10	645	---	---	---	20600	6	334
MONTH	577780	---	23714	682190	---	137538	727300	---	65296

01463500 DELAWARE RIVER AT TRENTON, N. J. (MORRISVILLE, PA.)--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

	APRIL			MAY			JUNE		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	20400	4	220	10300	1	28	13500	60	2190
2	19100	3	155	10000	1	27	10900	46	1350
3	20000	14	756	10300	4	111	9640	13	338
4	37100	130	13000	11600	7	219	8720	10	235
5	44800	66	7980	16400	10	443	9140	12	296
6	37000	25	2500	19100	12	619	16500	44	1960
7	29800	13	1050	20000	14	756	25000	130	8770
8	25900	9	629	23000	28	1740	28500	100	7690
9	23200	4	251	24600	24	1590	22400	40	2420
10	20400	2	111	21400	17	982	17400	22	1030
11	18700	1	50	18800	11	558	15700	17	721
12	17400	1	47	17000	7	321	17100	19	877
13	16000	1	43	17900	13	628	23700	70	4480
14	14900	1	40	24700	20	1330	25400	110	7540
15	14100	1	38	26900	28	2030	22600	70	4270
16	13500	1	36	25900	25	1750	18800	40	2030
17	12700	1	34	24400	21	1380	18300	15	741
18	12300	1	33	22500	15	911	14300	13	572
19	11900	1	32	19700	12	638	14200	11	422
20	11700	1	32	18100	9	440	13700	10	370
21	11200	1	30	17000	10	459	12500	9	304
22	11100	1	30	14900	9	360	11200	10	302
23	11000	1	30	14600	8	315	8980	9	218
24	10800	1	29	14900	10	402	8120	8	175
25	12600	4	136	14400	15	583	8330	7	157
26	16100	4	174	13000	14	491	7150	5	97
27	14600	3	118	12000	13	421	6630	4	72
28	12500	2	67	10700	9	260	7020	3	57
29	11500	1	31	10200	7	193	12400	84	2810
30	11100	1	30	8720	6	141	13100	102	3610
31	---	---	---	9260	5	125	---	---	---
MONTH	543600	---	27712	522960	---	20251	442030	---	56104

	JULY			AUGUST			SEPTEMBER		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	11100	66	1970	8870	11	263	9890	90	2400
2	9430	38	968	8140	9	198	9550	65	1680
3	9210	15	373	7240	7	137	7310	40	789
4	9100	19	467	6540	9	159	6390	27	466
5	7740	22	460	8020	15	325	5830	12	189
6	6220	17	285	8420	12	273	5500	8	119
7	5980	10	161	9040	10	244	5190	10	140
8	5540	7	105	9030	11	268	4540	5	61
9	5580	9	136	9610	9	234	3980	4	43
10	5540	8	120	8190	10	221	4240	2	23
11	5830	7	110	6810	9	165	4840	4	52
12	5580	8	121	6090	7	115	4740	3	38
13	21800	90	5300	6200	8	134	6760	7	128
14	30100	300	24400	5850	6	95	5770	8	125
15	29600	220	17000	5475	7	103	4650	5	63
16	22900	110	6800	5550	7	105	4880	4	53
17	18100	80	3910	6160	10	166	4730	3	38
18	15500	60	2510	5740	7	109	4650	2	25
19	12700	39	1340	5600	7	106	4560	2	25
20	12400	30	1000	5440	6	88	4790	3	39
21	19800	520	27800	4950	7	94	5740	3	46
22	15900	120	5150	4770	8	103	5570	4	60
23	15900	55	2360	4770	7	90	7800	11	232
24	13300	38	1360	4830	6	78	17700	85	4060
25	20800	190	10700	6570	21	373	39300	280	29700
26	23800	170	10900	8320	75	1680	41600	170	19100
27	18500	70	3500	8050	38	826	46600	160	20100
28	15400	35	1460	6750	19	346	36100	54	5260
29	12400	26	870	5790	9	141	29000	31	2430
30	11500	21	652	5180	7	98	22900	24	1480
31	10100	16	436	5520	6	89	---	---	---
MONTH	426350	---	132674	207510	---	7425	365110	---	88964
YEAR	5568779		765299.0						

01463500 DELAWARE RIVER AT TRENTON, N. J. (MORRISVILLE, PA.)--Continued

SPECIFIC CONDUCTANCE (MICROMHOS AT 25°C), WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	167	148	156	207	204	205	134	134	134	138	136	137
2	154	149	151	208	202	206	138	133	135	140	136	138
3	167	152	158	206	199	203	145	134	140	139	138	138
4	176	168	172	208	203	205	145	140	143	140	139	140
5	178	166	174	207	204	205	139	133	135	141	137	139
6	174	164	172	206	199	204	135	134	135	141	139	140
7	178	164	173	196	194	195	139	135	137	142	140	141
8	181	176	---	195	194	194	144	135	139	---	---	---
9	---	---	---	190	184	187	148	101	127	---	---	---
10	---	---	---	182	180	181	100	90	92	---	---	---
11	---	---	---	179	177	178	96	88	92	---	---	---
12	---	---	---	177	176	177	101	91	98	---	---	---
13	---	---	---	178	174	175	105	101	103	---	---	---
14	---	---	---	172	167	170	110	105	107	---	---	---
15	181	178	179	159	155	156	114	110	111	---	---	---
16	189	174	185	149	148	148	118	107	114	---	---	---
17	---	---	---	141	140	141	125	112	119	---	---	---
18	---	---	---	135	134	134	---	---	---	116	103	111
19	---	---	---	127	127	127	---	---	---	127	115	120
20	---	---	---	128	119	123	---	---	---	132	110	119
21	---	---	---	128	125	127	---	---	---	131	115	125
22	192	191	---	130	127	129	---	---	---	150	131	140
23	194	190	192	127	116	122	131	129	---	161	150	156
24	191	186	189	116	113	114	131	126	128	162	156	158
25	195	193	194	120	116	118	134	121	129	160	155	158
26	201	196	199	124	120	122	134	131	133	161	153	157
27	203	200	202	125	124	124	133	132	132	162	148	156
28	205	202	204	126	124	125	133	131	132	147	138	141
29	206	205	206	130	127	128	134	130	132	---	---	---
30	206	205	206	133	131	132	133	131	132	129	121	124
31	207	205	206	---	---	---	137	133	135	136	112	126
MONTH	---	---	---	208	113	159	148	88	125	---	---	---

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	114	104	107	---	---	---	125	122	---	169	151	156
2	135	102	115	---	---	---	122	119	120	153	134	145
3	141	125	132	---	---	---	127	121	123	140	137	139
4	132	122	127	---	---	---	130	107	121	155	142	146
5	133	116	126	---	---	---	102	92	96	168	149	158
6	145	127	138	130	121	---	93	88	91	171	154	164
7	158	144	152	146	116	124	102	86	94	160	147	152
8	162	151	158	148	124	---	121	110	---	153	140	146
9	152	148	151	---	---	---	125	120	121	141	134	136
10	159	149	153	---	---	---	128	120	125	141	134	137
11	169	156	157	---	---	---	129	128	128	143	138	142
12	167	160	163	143	140	---	129	124	126	153	138	146
13	163	151	157	147	144	146	126	124	125	149	118	124
14	163	155	158	148	141	144	129	126	128	128	117	123
15	163	159	161	149	147	148	128	125	127	125	111	115
16	160	144	152	149	146	147	129	120	126	---	---	---
17	150	135	142	151	148	149	132	121	128	---	---	---
18	161	151	159	156	146	151	134	132	133	---	---	---
19	165	150	157	151	143	148	138	134	135	112	109	---
20	160	153	157	158	147	154	139	136	138	---	---	---
21	158	154	156	152	138	---	138	135	137	---	---	---
22	157	151	155	---	---	---	143	133	139	---	---	---
23	158	151	154	---	---	---	142	138	139	---	---	---
24	155	144	147	103	96	---	137	134	136	---	---	---
25	143	137	---	100	92	---	143	133	138	---	---	---
26	---	---	---	---	---	---	142	124	132	---	---	---
27	---	---	---	---	---	---	145	132	139	139	131	---
28	---	---	---	---	---	---	150	135	144	135	126	130
29	---	---	---	---	---	---	160	149	154	131	128	129
30	---	---	---	---	---	---	160	154	158	124	115	119
31	---	---	---	---	---	---	---	---	---	133	125	129
MONTH	167	102	147	---	---	---	160	86	129	---	---	---

01463500 DELAWARE RIVER AT TRENTON, N. J. (MORRISVILLE, PA.)--Continued

SPECIFIC CONDUCTANCE (MICROMHOS AT 25°C), WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	142	120	133	---	---	---	218	208	212			
2	150	133	147	---	---	---	228	223	224			
3	---	---	---	---	---	---	235	227	232			
4	---	---	---	---	---	---	244	238	240			
5	---	---	---	---	---	---	247	241	244			
6	---	---	---	---	---	---	246	237	242			
7	---	---	---	---	---	---	235	228	232			
8	---	---	---	---	---	---	232	223	227			
9	---	---	---	203	200	---	221	196	214			
10	---	---	---	205	193	202	194	175	185			
11	---	---	---	215	201	208	202	182	196			
12	---	---	---	217	202	211	216	202	208			
13	---	---	---	---	---	---	232	217	224			
14	---	---	---	---	---	---	234	219	226			
15	---	---	---	---	---	---	226	221	224			
16	120	110	---	169	151	---	229	226	---			
17	119	109	114	166	156	160	---	---	---			
18	118	112	115	167	163	165	227	225	---			
19	129	117	119	181	168	174	225	213	219			
20	135	118	126	186	171	183	213	205	210			
21	150	134	142	169	141	153	214	209	212			
22	154	136	147	167	161	---	217	210	212			
23	157	144	147	---	---	---	218	198	211			
24	160	145	149	---	---	---	234	218	227			
25	162	151	155	---	---	---	233	218	225			
26	162	156	158	---	---	---	218	186	203			
27	182	162	172	---	---	---	---	---	---			
28	185	176	184	---	---	---	---	---	---			
29	194	152	182	184	176	---	---	---	---			
30	154	138	144	195	190	193	---	---	---			
31	---	---	---	202	197	199	---	---	---			
MONTH	---	---	---	---	---	---	247	175	---			

DISSOLVED OXYGEN (DO), IN MILLIGRAMS PER LITER, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	11.0	10.4	10.8	13.1	9.4	10.9	13.9	13.1	13.5	13.2	12.9	13.0
2	11.4	10.7	11.0	12.1	9.4	10.4	13.0	11.9	12.4	13.7	12.9	13.3
3	11.9	11.0	11.5	10.1	9.1	9.5	12.8	11.9	12.5	13.8	13.5	13.7
4	12.4	11.6	12.1	11.4	9.0	9.9	13.5	12.9	13.2	13.8	13.4	13.6
5	12.6	12.0	12.2	10.0	8.8	9.3	14.4	13.5	14.0	13.8	13.4	13.6
6	12.3	11.5	11.9	11.2	9.0	9.8	15.5	14.4	15.0	13.8	13.5	13.7
7	12.3	10.9	12.0	10.9	8.9	9.6	15.5	14.2	15.1	13.6	13.2	13.4
8	13.1	10.9	11.9	11.6	9.0	10.1	14.1	11.6	13.1	---	---	---
9	13.4	10.8	11.9	11.2	9.1	10.0	12.9	11.8	12.4	---	---	---
10	13.6	10.7	11.8	11.5	9.0	10.0	13.5	11.5	12.9	---	---	---
11	14.2	10.8	12.2	13.3	10.2	11.5	14.4	13.5	13.9	---	---	---
12	13.2	10.6	11.6	12.3	10.5	11.1	14.5	13.8	14.1	---	---	---
13	12.1	9.9	10.8	10.7	9.1	10.3	14.3	14.1	14.2	---	---	---
14	12.1	10.0	10.8	10.7	9.7	10.1	14.3	13.8	13.9	---	---	---
15	13.2	10.0	11.2	10.6	9.5	10.0	14.0	13.8	13.9	---	---	---
16	13.0	9.8	11.1	10.9	9.9	10.3	13.9	13.2	13.7	---	---	---
17	12.5	9.6	10.7	10.8	10.3	10.5	13.6	12.8	---	---	---	---
18	12.9	9.9	11.1	11.3	10.9	11.1	---	---	---	14.6	14.3	14.4
19	12.7	9.8	10.9	11.8	11.3	11.5	---	---	---	14.2	13.8	14.1
20	13.2	9.9	11.2	11.9	11.4	11.6	---	---	---	13.6	13.5	13.6
21	13.0	10.1	11.2	11.7	10.6	11.4	---	---	---	13.8	13.4	13.6
22	13.1	11.5	12.0	11.5	10.6	11.1	---	---	---	13.8	13.4	13.6
23	12.5	11.3	11.9	12.1	11.5	11.8	13.7	13.0	---	13.5	13.2	13.3
24	12.8	11.2	11.8	12.5	11.8	12.1	13.6	12.9	13.0	13.5	12.9	13.3
25	12.4	10.8	11.4	12.3	11.8	12.0	13.0	12.7	12.8	13.0	12.5	12.8
26	13.0	10.7	11.6	12.9	12.0	12.4	13.2	12.7	12.9	12.5	12.1	12.4
27	13.2	10.8	11.8	13.3	12.5	12.8	13.4	13.0	13.2	12.9	11.8	12.6
28	13.7	10.8	11.9	13.1	12.4	12.7	13.4	13.0	13.2	13.4	10.7	12.5
29	13.9	10.8	12.0	13.7	12.6	13.2	13.4	13.1	13.2	11.8	10.7	11.1
30	12.5	9.9	11.1	14.1	13.2	13.6	13.3	12.8	13.1	11.5	10.9	11.1
31	12.3	9.2	10.4	---	---	---	13.2	12.8	13.0	11.8	11.1	11.3
MONTH	14.2	9.2	11.5	14.1	8.8	11.0	15.5	11.5	---	---	---	---

01463500 DELAWARE RIVER AT TRENTON, N. J. (MORRISVILLE, PA.)--Continued

DISSOLVED OXYGEN (DO), IN MILLIGRAMS PER LITER, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	11.6	11.1	11.3	---	---	---	8.2	7.3	---	12.1	10.7	11.4
2	11.8	11.1	11.4	---	---	---	10.4	8.1	9.6	13.0	10.2	11.7
3	12.0	11.2	11.6	---	---	---	10.1	9.2	9.7	15.5	10.7	12.9
4	12.2	11.3	11.8	---	---	---	10.5	9.0	9.7	11.0	10.0	10.6
5	12.4	11.4	11.9	---	---	---	10.8	9.2	10.1	11.5	10.1	10.6
6	12.0	11.1	11.5	13.5	11.9	---	12.0	10.9	11.6	10.8	9.8	10.3
7	11.4	11.0	11.1	13.9	11.9	12.7	12.6	10.2	12.1	11.6	10.2	11.0
8	11.7	10.9	11.2	13.9	12.0	---	13.4	11.4	---	12.0	10.9	11.4
9	11.5	10.9	11.2	---	---	---	---	---	---	11.8	10.2	11.1
10	12.3	11.4	11.9	---	---	---	---	---	---	10.3	9.4	9.8
11	12.3	11.5	11.9	---	---	---	---	---	---	10.7	9.0	9.8
12	12.8	11.0	11.7	12.3	11.0	---	---	---	---	11.3	9.5	10.2
13	13.7	11.7	12.8	12.6	11.9	12.2	---	---	---	10.3	9.1	9.6
14	13.7	13.1	13.4	12.2	11.8	12.0	---	---	---	9.2	9.0	9.1
15	13.8	12.2	13.3	11.9	11.6	11.8	11.8	10.7	11.4	9.6	9.1	9.3
16	13.4	12.1	13.0	11.8	11.5	11.6	12.3	10.6	11.5	9.3	8.8	9.1
17	13.1	12.3	12.7	12.4	11.9	12.0	12.9	11.2	11.9	9.6	9.0	9.3
18	13.1	12.2	12.6	13.0	11.9	12.6	12.7	11.1	11.9	9.4	8.9	9.1
19	13.6	13.1	13.3	12.9	12.0	12.4	11.9	10.4	11.2	10.2	8.7	9.4
20	13.8	12.9	13.3	12.6	11.9	12.0	12.9	10.0	11.5	9.7	8.5	9.1
21	14.2	13.0	13.5	11.6	11.0	---	13.6	10.3	11.8	9.1	8.5	8.7
22	14.2	12.8	13.4	---	---	---	15.1	10.6	12.6	8.4	7.3	7.8
23	13.0	11.6	---	---	---	---	15.5	11.6	13.6	11.4	8.4	9.7
24	12.2	11.2	11.7	12.1	11.0	---	13.2	10.8	12.0	10.6	8.7	9.6
25	11.7	11.1	---	12.0	11.4	---	---	---	---	9.7	8.5	8.9
26	---	---	---	---	---	---	---	---	---	10.0	8.2	9.1
27	---	---	---	---	---	---	13.3	10.2	11.6	10.2	8.7	9.3
28	---	---	---	---	---	---	13.5	10.4	11.8	12.0	9.0	10.5
29	---	---	---	---	---	---	13.3	10.3	11.8	13.8	9.9	11.7
30	---	---	---	---	---	---	15.5	10.7	12.7	12.2	10.4	11.4
31	---	---	---	---	---	---	---	---	---	13.1	10.7	11.5
MONTH	14.2	10.9	12.2	---	---	---	---	---	---	15.5	7.3	10.1

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	11.6	7.9	9.3	---	---	---	11.5	8.6	9.9			
2	8.8	8.3	8.6	---	---	---	11.7	8.3	9.8			
3	10.1	8.9	9.3	---	---	---	12.6	8.0	10.1			
4	11.5	9.5	10.6	---	---	---	12.3	7.7	9.3			
5	10.4	7.6	9.5	---	---	---	12.4	8.1	10.1			
6	8.5	7.7	7.8	---	---	---	8.8	7.2	7.8			
7	8.6	7.8	8.2	---	---	---	8.2	7.4	7.8			
8	9.2	8.6	8.9	---	---	---	9.0	7.8	8.3			
9	9.5	9.0	---	11.1	7.1	---	9.5	8.2	8.8			
10	---	---	---	10.0	6.5	8.0	10.0	8.2	9.0			
11	---	---	---	9.4	6.9	8.0	10.6	8.6	9.0			
12	---	---	---	8.2	6.4	7.2	11.7	8.3	9.8			
13	---	---	---	---	---	---	12.4	8.5	10.2			
14	---	---	---	---	---	---	13.2	8.5	10.6			
15	---	---	---	---	---	---	13.9	9.0	11.2			
16	9.3	8.9	---	8.6	8.4	---	10.4	8.4	---			
17	9.0	7.9	8.5	8.7	8.3	8.5	---	---	---			
18	9.9	8.0	8.9	8.7	8.2	8.4	9.8	8.3	---			
19	10.2	8.5	9.4	8.6	8.0	8.3	11.8	8.2	9.8			
20	9.9	7.6	9.0	8.6	7.7	8.2	12.7	9.0	10.5			
21	10.9	7.6	8.8	8.1	7.6	7.8	---	---	---			
22	9.3	7.6	8.6	8.1	7.2	---	---	---	---			
23	12.9	8.7	10.6	---	---	---	---	---	---			
24	13.5	8.4	10.6	---	---	---	---	---	---			
25	11.6	8.1	9.7	---	---	---	---	---	---			
26	9.5	7.5	8.4	---	---	---	8.4	6.8	7.3			
27	9.5	7.7	8.5	---	---	---	---	---	---			
28	10.2	8.4	8.9	---	---	---	---	---	---			
29	9.2	7.4	8.6	9.8	9.0	---	---	---	---			
30	8.4	8.1	8.2	10.4	8.8	9.5	---	---	---			
31	---	---	---	11.4	8.9	10.0	---	---	---			
MONTH	13.5	7.4	---	---	---	---	---	---	---			

01463500 DELAWARE RIVER AT TRENTON, N. J. (MORRISVILLE, PA.)--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	17.0	16.0	16.5	15.0	13.0	14.0	3.5	3.5	3.5	3.5	3.0	3.0
2	16.0	15.0	15.5	15.5	14.0	14.5	4.5	3.5	4.0	3.5	2.5	3.0
3	15.5	14.0	15.0	15.0	14.5	14.5	4.5	4.0	4.5	3.0	2.5	2.5
4	15.5	14.5	15.0	15.5	14.0	15.0	4.0	2.5	3.0	3.5	2.5	3.0
5	15.5	14.5	15.0	15.5	14.5	15.0	3.0	2.0	2.5	4.0	3.0	3.5
6	15.0	14.0	14.5	15.0	14.0	14.5	3.5	2.5	3.0	4.0	3.0	3.5
7	15.0	14.0	14.5	14.0	13.5	13.5	4.0	3.0	3.5	4.5	3.5	4.0
8	14.5	13.0	13.5	13.5	12.5	13.0	7.5	4.0	5.5	---	---	---
9	15.0	13.0	14.0	13.5	12.0	12.5	7.5	6.5	7.0	---	---	---
10	15.0	13.5	14.0	13.0	11.5	12.0	6.0	4.0	4.5	---	---	---
11	16.0	13.5	14.5	12.0	10.5	11.5	4.5	3.5	4.0	---	---	---
12	15.5	14.0	15.0	12.0	11.0	11.5	4.0	3.5	3.5	---	---	---
13	15.5	15.0	15.0	12.0	11.0	11.5	4.0	3.5	4.0	---	---	---
14	15.5	14.5	15.0	10.5	10.0	10.0	4.5	4.0	4.0	---	---	---
15	15.5	14.5	15.0	10.0	8.5	9.0	4.5	4.0	4.0	---	---	---
16	15.0	13.5	14.5	8.5	8.0	8.0	5.0	4.5	4.5	---	---	---
17	14.5	13.5	14.0	8.0	6.5	7.0	5.0	4.5	---	---	---	---
18	14.5	13.5	14.0	6.5	6.0	6.0	---	---	---	1.5	0.5	1.0
19	13.5	12.5	12.5	6.5	6.0	6.5	---	---	---	2.5	1.0	1.5
20	12.5	10.5	11.5	8.0	6.5	7.0	---	---	---	2.5	1.5	2.0
21	11.5	10.5	11.0	8.0	7.0	7.0	---	---	---	1.5	0.5	1.5
22	11.5	9.0	9.5	7.0	6.5	6.5	---	---	---	2.0	1.5	1.5
23	9.5	8.5	9.0	6.5	5.5	6.0	4.0	3.5	---	2.5	1.5	2.0
24	10.5	8.5	9.5	6.5	5.5	6.0	4.0	4.0	4.0	2.5	2.0	2.5
25	10.0	9.0	9.5	6.5	6.0	6.0	4.0	3.5	4.0	3.0	2.5	3.0
26	10.5	9.0	10.0	5.5	3.5	4.5	4.0	3.0	3.5	3.0	2.5	3.0
27	11.0	9.5	10.0	4.5	3.5	4.0	3.5	3.0	3.0	3.0	2.5	3.0
28	11.5	9.5	10.5	4.5	4.0	4.0	3.5	3.0	3.5	3.5	2.5	3.0
29	12.0	10.5	11.0	4.5	3.5	4.0	3.5	2.5	3.0	4.5	3.0	4.0
30	13.0	11.5	12.0	4.0	3.5	3.5	4.0	3.0	3.5	5.0	3.0	4.0
31	14.0	12.0	13.0	---	---	---	4.0	3.0	3.5	5.5	5.0	5.0
MONTH	17.0	8.5	13.0	15.5	3.5	9.5	7.5	2.0	---	---	---	---

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	5.0	4.5	4.5	---	---	---	9.0	6.0	---	13.5	12.0	12.5
2	4.5	4.0	4.0	---	---	---	11.5	7.5	9.5	13.0	11.5	12.0
3	4.5	3.5	4.0	---	---	---	11.5	10.0	11.0	15.5	12.0	13.5
4	4.0	3.5	3.5	---	---	---	10.5	6.5	8.5	14.5	13.0	14.0
5	3.5	3.0	3.0	---	---	---	6.5	3.5	4.5	14.5	12.0	13.0
6	4.0	3.0	3.5	6.0	5.5	---	4.0	3.0	3.5	14.0	13.0	13.5
7	4.5	3.5	4.0	5.5	4.0	5.0	6.5	3.0	4.5	15.0	12.5	13.5
8	4.0	3.5	4.0	6.5	5.5	---	7.5	5.0	6.5	15.5	12.5	14.0
9	4.0	3.0	4.0	---	---	---	8.5	6.5	8.0	15.5	13.0	14.5
10	3.5	2.5	3.0	---	---	---	10.5	7.5	8.0	15.5	13.5	14.5
11	3.0	3.0	3.0	---	---	---	8.0	6.0	6.5	17.5	14.0	16.0
12	3.0	2.0	2.5	4.5	4.0	---	10.0	7.5	8.5	17.5	15.0	16.5
13	3.5	1.0	2.5	5.5	4.5	5.0	10.0	8.0	9.5	19.0	17.0	17.5
14	2.5	1.0	1.5	7.0	5.5	6.5	10.5	7.5	9.0	18.5	16.0	17.5
15	2.5	2.0	2.0	6.0	4.0	5.0	9.5	8.0	8.5	17.5	15.0	16.5
16	3.0	2.5	3.0	4.0	3.0	3.5	11.0	7.5	9.5	18.5	16.5	17.5
17	4.0	3.0	3.5	6.0	3.5	5.0	13.5	10.0	12.0	19.0	16.5	18.0
18	4.0	3.0	3.5	6.0	4.0	5.5	14.0	12.0	13.0	18.5	16.5	18.0
19	4.0	3.0	3.5	6.5	6.0	6.0	15.0	13.0	14.0	20.0	16.5	18.5
20	4.5	3.0	3.5	---	---	---	14.5	13.0	13.5	21.5	18.0	20.0
21	4.5	3.5	4.0	---	---	---	14.0	11.5	12.5	22.0	19.5	21.0
22	5.0	3.5	4.5	---	---	---	13.5	11.5	12.5	23.5	20.5	22.0
23	5.0	4.5	5.0	---	---	---	14.5	11.5	13.5	24.5	21.0	23.0
24	6.0	5.0	5.5	7.0	5.5	---	14.0	13.0	13.5	25.0	22.5	23.5
25	6.0	5.5	---	7.5	6.0	---	17.0	14.5	16.5	25.0	21.0	23.0
26	---	---	---	---	---	---	16.0	15.0	15.5	22.0	19.5	21.0
27	---	---	---	---	---	---	15.0	12.5	14.0	22.5	21.0	22.0
28	---	---	---	---	---	---	14.5	12.5	13.5	23.5	21.5	22.5
29	---	---	---	---	---	---	13.5	12.5	13.0	24.0	22.5	23.0
30	---	---	---	---	---	---	15.0	11.5	13.0	23.0	23.0	23.0
31	---	---	---	---	---	---	---	---	---	24.0	22.5	23.0
MONTH	6.0	1.0	3.5	---	---	---	17.0	3.0	10.5	25.0	11.5	18.0

01463500 DELAWARE RIVER AT TRENTON, N. J. (MORRISVILLE, PA.)--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	23.5	23.0	23.0	---	---	---	27.5	25.0	26.0			
2	24.0	22.5	23.5	---	---	---	29.0	26.0	27.5			
3	23.5	21.5	22.0	---	---	---	30.0	27.0	28.5			
4	22.0	21.0	21.5	---	---	---	29.5	27.0	28.0			
5	21.0	18.0	20.5	---	---	---	29.0	26.0	27.5			
6	20.5	18.5	19.0	---	---	---	27.5	24.5	26.5			
7	19.5	17.0	18.5	---	---	---	24.5	22.0	23.5			
8	18.5	17.5	18.0	---	---	---	23.0	21.0	22.0			
9	18.0	17.0	---	28.0	24.5	---	24.0	22.0	23.0			
10	---	---	---	28.0	23.5	25.5	24.5	22.5	23.5			
11	---	---	---	28.0	25.5	26.5	25.0	23.0	24.0			
12	---	---	---	26.5	25.5	26.0	27.0	23.5	25.0			
13	---	---	---	---	---	---	27.0	24.0	25.5			
14	---	---	---	---	---	---	27.5	24.5	26.0			
15	---	---	---	---	---	---	28.0	25.0	26.0			
16	21.0	20.5	---	24.0	22.5	---	27.0	25.0	---			
17	21.5	19.0	20.0	25.5	22.5	24.0	---	---	---			
18	24.0	21.0	22.5	26.5	24.0	25.0	25.5	24.5	---			
19	25.5	22.5	24.0	27.0	25.0	26.0	26.0	23.0	24.5			
20	26.0	23.5	25.0	26.5	24.0	25.5	26.5	23.0	24.5			
21	26.0	22.5	24.0	25.5	23.5	24.5	26.0	23.5	24.5			
22	25.5	22.5	24.0	24.5	23.0	---	26.0	24.0	25.0			
23	26.5	22.5	24.5	---	---	---	25.5	23.0	24.5			
24	27.0	24.5	25.5	---	---	---	24.0	23.0	23.5			
25	27.0	24.0	25.5	---	---	---	26.0	23.0	24.5			
26	26.0	23.5	25.0	---	---	---	26.5	24.5	25.5			
27	23.5	22.5	23.0	---	---	---	---	---	---			
28	24.5	22.0	23.0	---	---	---	---	---	---			
29	24.0	22.5	23.5	25.0	23.5	---	---	---	---			
30	22.5	20.5	21.0	25.5	23.5	24.5	---	---	---			
31	---	---	---	26.5	24.0	25.0	---	---	---			
MONTH	27.0	17.0	---	---	---	---	30.0	21.0	---			

pH (UNITS), WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	7.5	7.3	7.4	9.9	7.3	8.7	7.5	7.3	7.4	7.5	7.4	7.4
2	7.4	7.3	7.4	9.7	8.2	8.9	7.5	7.0	7.3	7.6	7.3	7.5
3	7.4	7.1	7.3	9.2	6.9	8.1	7.2	7.1	7.2	7.7	7.6	7.6
4	7.4	7.0	7.2	8.8	7.0	7.8	7.7	7.2	7.5	7.6	7.6	7.6
5	7.7	7.2	7.4	7.7	6.1	7.1	7.7	7.5	7.6	7.6	7.5	7.6
6	8.0	7.5	7.6	8.4	6.4	7.4	7.6	7.3	7.5	7.6	7.5	7.6
7	8.3	7.5	7.7	8.3	6.8	7.5	7.5	7.3	7.4	7.6	7.4	7.5
8	8.8	7.6	8.1	8.8	7.2	7.8	7.3	7.1	7.2	---	---	---
9	9.0	7.8	8.3	8.7	7.3	7.8	7.3	6.9	7.1	---	---	---
10	9.3	7.7	8.3	8.7	7.3	7.8	6.9	6.7	6.8	---	---	---
11	9.1	7.6	8.0	9.1	7.3	8.0	6.8	6.6	6.8	---	---	---
12	9.0	7.6	8.2	8.4	6.7	7.4	6.9	6.7	6.8	---	---	---
13	8.8	7.5	8.0	7.4	6.9	7.1	6.9	6.8	6.9	---	---	---
14	8.1	7.4	7.7	7.5	7.1	7.3	7.0	6.9	6.9	---	---	---
15	9.1	7.4	8.1	7.3	6.9	7.0	7.1	7.0	7.1	---	---	---
16	7.9	7.6	7.7	7.2	7.0	7.1	7.1	6.9	7.1	---	---	---
17	7.7	7.5	7.6	7.2	7.0	7.1	7.4	6.9	---	---	---	---
18	7.8	7.5	7.7	7.4	7.1	7.3	---	---	---	7.8	7.4	7.6
19	8.0	7.7	7.8	7.5	7.1	7.2	---	---	---	7.4	7.3	7.4
20	8.0	7.7	7.8	7.2	7.0	7.1	---	---	---	7.5	7.3	7.4
21	8.1	7.7	7.9	7.4	7.0	7.3	---	---	---	7.7	7.5	7.6
22	8.3	7.5	7.8	7.9	7.2	7.5	---	---	---	7.6	7.4	7.5
23	8.3	7.3	7.7	7.6	7.4	7.5	7.3	7.1	---	7.6	7.4	7.5
24	8.4	7.3	7.7	7.5	7.2	7.3	7.3	7.2	7.3	7.5	7.5	7.5
25	8.8	7.1	7.4	7.4	7.2	7.3	7.5	7.2	7.3	7.5	7.4	7.5
26	8.5	7.1	7.6	7.7	7.2	7.4	7.7	7.5	7.6	7.6	7.4	7.5
27	8.5	7.0	7.6	7.6	7.3	7.5	7.5	7.4	7.4	7.6	7.4	7.5
28	8.8	7.3	7.9	7.4	7.2	7.3	7.5	7.4	7.4	7.6	7.2	7.4
29	8.8	7.4	8.0	7.5	7.2	7.3	7.5	7.4	7.4	7.5	7.1	7.3
30	9.0	6.8	8.2	7.6	7.3	7.4	7.5	7.3	7.4	7.5	7.3	7.4
31	9.0	7.4	8.4	---	---	---	7.5	7.4	7.5	7.5	7.4	7.4
MONTH	9.3	6.8	7.8	9.9	6.1	7.5	7.7	6.6	---	---	---	---

DELAWARE RIVER BASIN

01463500 DELAWARE RIVER AT TRENTON, N. J. (MORRISVILLE, PA.)--Continued

pH (UNITS), WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	FEBRUARY			MARCH			APRIL			MAY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	7.4	7.3	7.4	---	---	---	7.5	7.3	---	8.9	7.8	8.5
2	7.5	7.2	7.4	---	---	---	7.6	7.3	7.5	9.0	7.7	8.3
3	7.6	7.3	7.4	---	---	---	7.7	7.5	7.6	9.3	8.0	8.7
4	7.6	7.4	7.5	---	---	---	7.7	7.4	7.6	8.8	7.6	8.2
5	7.6	7.4	7.5	---	---	---	7.4	7.1	7.3	8.0	7.5	7.7
6	7.6	7.3	7.4	7.6	7.3	---	7.5	7.3	7.4	7.7	7.6	7.6
7	7.6	7.5	7.5	7.7	7.4	7.5	7.5	7.3	7.4	7.8	7.5	7.6
8	7.7	7.5	7.6	7.8	7.6	---	7.8	7.6	---	7.7	7.4	7.6
9	7.8	7.5	7.6	---	---	---	7.8	7.7	7.8	7.9	7.4	7.6
10	7.8	7.6	7.7	---	---	---	7.9	7.6	7.8	7.7	7.3	7.5
11	7.8	7.6	7.7	---	---	---	8.0	7.7	7.9	8.2	7.5	7.8
12	7.8	7.6	7.7	7.5	7.3	---	8.1	7.8	8.0	8.1	7.6	7.8
13	7.8	7.6	7.7	7.6	7.4	7.4	8.1	7.8	8.0	7.8	7.4	7.6
14	8.0	7.7	7.8	7.5	7.4	7.4	8.4	7.9	8.1	7.5	7.3	7.4
15	8.0	7.7	7.8	7.4	7.4	7.4	8.1	7.7	7.8	7.5	7.3	7.4
16	7.9	7.7	7.8	7.5	7.4	7.4	8.5	7.7	8.1	7.4	7.3	7.3
17	7.8	7.6	7.7	7.5	7.4	7.4	8.7	7.8	8.2	7.6	7.2	7.4
18	7.8	7.6	7.6	7.6	7.4	7.5	8.7	7.8	8.2	7.6	7.4	7.5
19	7.7	7.5	7.6	7.8	7.4	7.6	9.0	7.8	7.5	7.8	7.4	7.7
20	7.7	7.2	7.6	---	---	---	9.0	7.7	8.4	7.9	7.4	7.6
21	7.9	7.5	7.7	7.6	7.5	---	9.3	7.9	8.7	7.9	7.3	7.6
22	8.0	7.5	7.7	---	---	---	9.4	8.3	9.0	8.1	7.2	7.6
23	7.6	7.3	---	---	---	---	9.5	8.6	8.9	8.5	7.3	7.8
24	---	---	---	7.0	6.9	---	9.0	8.0	8.7	8.2	7.5	7.8
25	---	---	---	6.9	6.8	---	9.1	7.8	8.3	7.8	7.5	7.6
26	---	---	---	---	---	---	8.1	7.7	7.9	8.3	7.5	7.8
27	---	---	---	---	---	---	9.0	8.0	8.7	8.7	7.6	8.1
28	---	---	---	---	---	---	9.4	8.5	9.0	9.2	7.8	8.5
29	---	---	---	---	---	---	9.0	8.3	8.7	9.5	8.0	8.9
30	---	---	---	---	---	---	9.3	8.0	8.7	9.0	8.1	8.7
31	---	---	---	---	---	---	---	---	---	8.9	7.8	8.2
MONTH	8.0	7.2	7.6	---	---	---	9.5	7.0	8.1	9.5	7.2	7.8

DAY	JUNE			JULY			AUGUST			SEPTEMBER		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	7.9	7.3	7.5	---	---	---	8.8	8.0	8.4			
2	7.8	7.3	7.6	---	---	---	9.0	7.9	8.5			
3	8.4	7.7	7.9	---	---	---	9.2	8.0	8.6			
4	9.0	7.7	8.3	---	---	---	8.9	8.0	8.4			
5	8.7	7.9	8.3	---	---	---	8.9	7.8	8.4			
6	7.8	7.4	7.5	---	---	---	8.1	7.5	7.7			
7	7.5	7.3	7.4	---	---	---	7.8	7.6	7.7			
8	7.7	7.5	7.6	---	---	---	8.0	7.6	7.8			
9	7.8	7.5	---	9.1	7.8	---	8.2	7.8	8.0			
10	---	---	---	8.9	8.4	8.6	8.6	7.9	8.1			
11	---	---	---	9.1	8.5	8.6	8.7	7.8	8.2			
12	---	---	---	8.8	7.9	8.4	8.9	7.7	8.3			
13	---	---	---	---	---	---	9.0	7.8	8.4			
14	---	---	---	---	---	---	9.0	7.8	8.5			
15	---	---	---	---	---	---	9.2	8.0	8.6			
16	7.8	7.6	---	7.6	7.2	---	8.5	8.0	---			
17	7.6	7.3	7.5	7.6	7.3	7.4	---	---	---			
18	8.1	7.4	7.7	7.6	7.3	7.4	7.5	7.0	---			
19	8.6	7.4	7.9	7.6	7.4	7.5	7.9	7.0	7.5			
20	8.4	7.6	7.9	7.7	6.6	7.4	8.2	7.1	7.7			
21	8.1	7.5	7.7	7.4	6.3	7.1	8.4	7.3	7.9			
22	8.4	7.6	7.9	7.3	7.3	---	8.3	7.6	7.9			
23	9.5	7.7	8.0	---	---	---	8.5	7.3	7.9			
24	9.5	8.0	9.1	---	---	---	7.9	7.4	7.5			
25	9.3	8.6	9.0	---	---	---	8.2	7.5	7.8			
26	9.0	8.1	8.6	---	---	---	7.6	7.4	7.5			
27	8.8	7.9	8.7	---	---	---	---	---	---			
28	8.6	7.8	8.0	---	---	---	---	---	---			
29	7.8	7.4	7.6	8.0	7.8	---	---	---	---			
30	7.3	7.0	7.1	8.3	7.8	8.0	---	---	---			
31	---	---	---	8.8	7.9	8.3	---	---	---			
MONTH	9.5	7.0	---	---	---	---	9.2	7.0	---			

01463625 ASSUNPINK CREEK AT BAKERSVILLE, N. J.

LOCATION.--Lat 40°16'06", long 74°42'07", Mercer County, at bridge on Basin Road, 1.4 mi (2.3 km) southeast of Franklin Corner, 0.5 mi (0.8 km) southeast of Bakersville, and midway between U.S. Route 1 and Penn Central Railroad tracks.

DRAINAGE AREA.--29.3 mi² (75.9 km²).

PERIOD OF RECORD.--Chemical analyses: September 1975.

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	DIS-SOLVED OXYGEN (MG/L)	BIO-CHEM-ICAL OXYGEN DEMAND 5 DAY (MG/L)	FECAL COLI-FORM (EC BROTH) (MPN)	FECAL COLI-FORM (COL. PER 100 ML)	TUR-BID-ITY (JTU)	COLOR (PLAT-INUM-COBALT UNITS)	TOTAL ORGANIC NITRO-GEN (N) (MG/L)
SEP. 30...	1000	17.5	103	6.8	6.3	1.8	90	64	10	20	.47

DATE	AMMONIA NITRO-GEN (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	TOTAL ORTHO PHOS-PHORUS (P) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	CAR-BONATE (CO3) (MG/L)	BICAR-BONATE (HCO3) (MG/L)
SEP. 30...	.04	.01	.70	.51	1.2	.13	.06	14	7	0	9

DATE	CARBON DIOXIDE (CO2) (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	TOTAL NON-FILT-RABLE RESIDUE (MG/L)
SEP. 30...	2.3	33	26	8.1	3.2	2.7	3.2	6.6	19	71	14

01463670 SHIPETAUKIN CREEK AT BAKERSVILLE, N. J.

LOCATION.--Lat 40°16'26", long 74°42'10", Mercer County, at bridge on State Route 546, 0.3 mi (0.5 km) east of Bakersville, 0.4 mi (0.6 km) upstream from mouth, and 2.2 mi (3.5 km) southeast of Lawrenceville.

DRAINAGE AREA.--8.96 mi² (23.21 km²).

PERIOD OF RECORD.--Chemical analyses: August to September 1975.

REMARKS.--Miscellaneous chemical samples collected during water years 1963, 65, 67.

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	TEMPERATURE (DEG C)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	DISSOLVED OXYGEN (MG/L)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L)	FECAL COLIFORM (EC BROTH) (MPN)	FECAL COLIFORM (COL. PER 100 ML)	TURBIDITY (JTU)	COLOR (PLATINUM-COBALT UNITS)	TOTAL ORGANIC NITROGEN (N) (MG/L)
AUG.											
14...	1000	23.0	212	6.9	8.0	2.5	5400	1320	6	14	.29
SEP.											
09...	0830	16.7	229	6.3	6.9	.8	--	600	5	2	.39

DATE	AMMONIA NITROGEN (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL ORTHO PHOSPHORUS (P) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)	ALKALINITY AS CACO3 (MG/L)	CARBONATE (CO3) (MG/L)	BICARBONATE (HCO3) (MG/L)
AUG.											
14...	.07	.02	2.1	.36	2.5	.01	.01	3.5	42	0	51
SEP.											
09...	.06	.02	2.2	.45	2.7	.05	.01	6.3	--	0	--

DATE	CARBON DIOXIDE (CO2) (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	TOTAL NONFILTRABLE RESIDUE (MG/L)
AUG.											
14...	10	71	29	16	7.5	8.7	2.4	11	25	146	16
SEP.											
09...	--	77	--	17	8.5	9.8	2.6	13	26	150	5

01464000 ASSUNPINK CREEK AT TRENTON, N. J.

LOCATION.--40°13'27", long 74°44'58", Mercer County, at gaging station under Chambers Street bridge in Trenton, 1.5 mi (2.4 km) upstream from mouth.

DRAINAGE AREA.--89.4 mi² (232 km²).

PERIOD OF RECORD.--Chemical analyses: August to September 1972 (partial-record station), October 1972 to September 1975.

REMARKS.--Miscellaneous storm sediment samples collected during water years 1971-75.

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	TEMPERATURE (DEG C)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	DISSOLVED OXYGEN (MG/L)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L)	IMMEDIATE COLIFORM (COL. PER 100 ML)	FECAL COLIFORM (EC BROTH) (MPN)	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)	TURBIDITY (JTU)
OCT. 22...	1230	104	11.0	236	7.9	9.8	9.6	2200	--	150	360	--
NOV. 30...	1500	61	6.0	--	--	9.4	9.2	1000	--	140	96	--
MAR. 14...	1305	226	5.5	182	6.9	11.3	4.8	--	1600	1340	--	20
APR. 17...	1400	113	13.0	240	7.1	8.9	3.7	--	<20	<50	--	10
MAY 09...	1125	166	17.6	218	6.8	8.2	5.1	--	490	460	--	8
JUNE 04...	1500	132	22.4	230	6.8	6.0	7.2	--	2400	1370	--	15
JULY 10...	1440	76	26.0	263	--	10.2	5.2	--	5400	2400	--	7
AUG. 29...	0900	63	24.1	373	6.1	6.5	5.3	--	3500	165	--	5
SEP. 10...	1400	57	25.0	411	--	6.0	9.4	--	--	740	--	5

DATE	COLOR (PLATINUM-COBALT UNITS)	TOTAL ORGANIC NITROGEN (N) (MG/L)	AMMONIA NITROGEN (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL ORTHO PHOSPHORUS (P) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)	ALKALINITY AS CACO3 (MG/L)	CARBONATE (CO3) (MG/L)
OCT. 22...	--	--	--	--	--	--	--	--	--	--	--	--
NOV. 30...	--	.40	2.7	.09	1.6	3.1	4.8	1.4	.94	17	--	--
MAR. 14...	20	.37	.73	.01	1.5	1.1	2.6	.19	.04	9.4	19	0
APR. 17...	9	.50	1.4	.07	2.1	1.9	4.1	.29	.17	5.6	29	0
MAY 09...	31	.55	.75	.06	1.3	1.3	2.7	.30	.10	8.6	26	0
JUNE 04...	65	.30	1.3	.10	1.9	1.6	3.6	.29	.07	8.7	30	0
JULY 10...	15	.60	1.2	.14	1.4	1.8	3.3	.33	.16	13	48	--
AUG. 29...	2	.40	1.9	.29	1.8	2.3	4.4	.17	.09	15	39	0
SEP. 10...	2	1.4	2.9	.36	2.1	4.3	6.7	.29	.23	9.9	61	--

DATE	BICARBONATE (HCO3) (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	TOTAL NONFILTRABLE RESIDUE (MG/L)
OCT. 22...	--	--	--	--	--	--	--	--	--	--	--	--
NOV. 30...	--	--	--	--	--	--	--	--	--	--	--	--
MAR. 14...	23	4.6	43	24	13	2.6	11	2.7	19	31	126	10
APR. 17...	35	4.4	67	38	17	5.9	16	3.3	24	35	155	13
MAY 09...	32	8.1	74	48	20	5.8	12	2.8	21	34	134	26
JUNE 04...	36	9.1	66	36	16	6.3	14	3.0	22	31	145	20
JULY 10...	59	--	75	27	19	6.7	18	3.8	27	35	186	7
AUG. 29...	47	--	88	49	22	8.0	20	4.5	36	45	217	13
SEP. 10...	74	--	88	28	22	8.1	34	4.9	38	47	213	12

01464000 ASSUNPINK CREEK AT TRENTON, N. J.--Continued

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	TEMPER-ATURE (DEG C)	INSTAN-TANEOUS DIS-CHARGE (CFS)	SUS-PENDED SEDI-MENT (MG/L)	SUS-PENDED SEDI-MENT DIS-CHARGE (T/DAY)	SUS. SED. FALL DIAM. % FINER THAN .004 MM	SUS. SED. FALL DIAM. % FINER THAN .008 MM	SUS. SED. FALL DIAM. % FINER THAN .016 MM
OCT.								
16...	0945	14.5	468	93	118	--	--	--
16...	1745	13.5	614	96	159	--	--	--
18...	1315	13.8	194	21	11	--	--	--
NOV.								
13...	1040	13.5	146	26	10	--	--	--
13...	1230	14.3	136	47	17	--	--	--
13...	1430	14.0	122	29	9.6	--	--	--
15...	0745	10.5	72	12	2.3	--	--	--
DEC.								
02...	0940	7.0	519	100	140	--	--	--
02...	1325	8.3	365	104	102	--	--	--
02...	1515	8.6	319	100	86	--	--	--
16...	1400	5.5	1120	165	499	--	--	--
16...	1530	5.5	1280	300	1040	--	--	--
FEB.								
14...	1403	3.8	128	7	2.4	--	--	--
25...	0935	7.3	614	51	85	--	--	--
25...	1305	8.0	573	47	73	--	--	--
MAR.								
20...	1440	9.6	614	59	98	--	--	--
APR.								
03...	1030	--	385	79	82	--	--	--
03...	1320	--	486	69	91	--	--	--
03...	1530	--	462	75	94	--	--	--
17...	1540	15.1	113	7	2.1	--	--	--
MAY								
16...	0940	18.2	483	47	61	--	--	--
16...	1220	18.4	444	38	46	--	--	--
21...	1245	22.9	152	16	6.6	--	--	--
29...	0945	22.5	79	14	3.0	--	--	--
JUNE								
06...	0900	18.0	567	75	115	--	--	--
06...	1515	19.3	420	58	66	--	--	--
12...	1040	18.6	635	64	110	--	--	--
12...	1925	18.5	681	62	114	--	--	--
JULY								
13...	1725	--	628	122	207	--	--	--
14...	1400	--	2530	338	2310	40	56	66
14...	1700	--	3000	373	3020	--	--	--
14...	1800	--	3140	305	2590	--	--	--
14...	1900	--	3180	292	2510	--	--	--
14...	2000	--	3180	254	2180	--	--	--
14...	2100	--	3180	201	1730	--	--	--
14...	2200	--	3120	186	1570	--	--	--
15...	1315	--	2180	110	647	--	--	--
21...	0945	--	4080	177	1950	75	91	92

DATE	SUS. SED. FALL DIAM. % FINER THAN .031 MM	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM	SUS. SED. SIEVE DIAM. % FINER THAN .125 MM	SUS. SED. SIEVE DIAM. % FINER THAN .250 MM	SUS. SED. SIEVE DIAM. % FINER THAN .500 MM	SUS. SED. SIEVE DIAM. % FINER THAN 1.00 MM	SUS. SED. SIEVE DIAM. % FINER THAN 2.00 MM
OCT.							
16...	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--
18...	--	--	--	--	--	--	--
NOV.							
13...	--	--	--	--	--	--	--
13...	--	--	--	--	--	--	--
13...	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--
DEC.							
02...	--	--	--	--	--	--	--
02...	--	--	--	--	--	--	--
02...	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--
FEB.							
14...	--	--	--	--	--	--	--
25...	--	--	--	--	--	--	--
25...	--	--	--	--	--	--	--
MAR.							
20...	--	--	--	--	--	--	--
APR.							
03...	--	--	--	--	--	--	--
03...	--	--	--	--	--	--	--
03...	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--
MAY							
16...	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--
21...	--	--	--	--	--	--	--
29...	--	--	--	--	--	--	--
JUNE							
06...	--	--	--	--	--	--	--
06...	--	--	--	--	--	--	--
12...	--	--	--	--	--	--	--
12...	--	--	--	--	--	--	--
JULY							
13...	--	--	--	--	--	--	--
14...	72	84	88	93	97	98	100
14...	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--
21...	92	95	96	99	100	--	--

01464040 DELAWARE RIVER AT MARINE TERMINAL, TRENTON, N. J.

LOCATION.--Lat 40°11'21", long 74°45'22", Mercer County, on left bank at downstream end of wharf at Marine Terminal, Trenton, 1.6 mi (2.6 km) downstream from toll bridge on U.S. Highway 1, 2.0 mi (3.2 km) downstream from Assunpink Creek, and at mile 131.80 (212 km) upstream from Atlantic Ocean.

DRAINAGE AREA.--6,870 mi² (17,793 km²).

PERIOD OF RECORD.--Chemical analyses: October 1972 to September 1975.
Water temperatures: October 1972 to September 1975.

EXTREMES.--1974-75:
Specific conductance: Maximum, 432 micromhos Aug. 19; minimum, 102 micromhos April 16.
Water temperatures: Maximum, 32.0°C July 9; minimum, freezing point Jan. 17.
Period of record:
Specific conductance: Maximum, 722 micromhos Aug. 24, 1973; minimum, 90 micromhos Apr. 5, 1973.
Water temperatures: Maximum, 32.5°C Sept. 4, 1972; minimum, freezing point on many days during winter months.

REMARKS.--Missing continuous water-quality records are the result of malfunction of sensor or sampling mechanism.

SPECIFIC CONDUCTANCE (MICROMHOS AT 25°C), WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	213	181	191	260	203	217	156	141	145	159	153	157
2	209	172	187	309	212	260	158	143	150	158	154	156
3	205	178	195	240	207	217	156	144	151	155	151	153
4	207	178	195	235	207	216	153	143	149	161	156	157
5	219	180	196	260	210	229	151	137	141	159	155	157
6	206	186	191	287	215	243	156	137	143	163	158	160
7	261	189	207	286	212	242	157	142	148	166	161	163
8	260	195	214	316	216	243	173	149	160	184	162	169
9	223	201	208	278	200	228	155	120	141	187	160	173
10	259	203	217	237	192	202	118	111	113	176	161	169
11	262	206	221	221	191	200	130	111	118	169	156	161
12	274	210	226	246	194	207	166	116	141	156	144	140
13	341	213	243	256	194	218	---	---	---	148	132	141
14	219	207	213	269	190	210	---	---	---	142	130	135
15	231	211	218	214	154	181	---	---	---	138	130	135
16	260	209	221	186	151	162	---	---	---	144	133	139
17	224	211	216	176	165	161	---	---	---	161	137	140
18	251	216	225	177	143	156	---	---	---	156	141	145
19	286	218	240	185	140	160	---	---	---	155	141	145
20	252	202	219	187	154	166	---	---	---	156	151	153
21	267	196	219	179	154	165	---	---	---	160	156	157
22	263	197	222	177	149	161	---	---	---	161	157	159
23	268	204	220	161	141	148	158	148	---	168	157	162
24	254	198	220	159	135	143	154	146	150	166	164	165
25	231	199	214	155	135	145	158	146	151	174	164	167
26	262	198	220	148	131	142	151	146	149	168	158	163
27	259	205	220	142	128	135	151	147	149	164	157	161
28	271	203	222	139	133	136	154	148	150	158	151	156
29	250	208	223	143	135	138	155	148	151	155	147	151
30	236	205	216	146	136	141	155	151	153	155	148	152
31	259	207	221	---	---	---	158	151	155	157	152	155
MONTH	341	172	215	316	128	185	---	---	---	187	130	155

01464040 DELAWARE RIVER AT MARINE TERMINAL, TRENTON, N. J.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS AT 25°C), WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	149	146	147	127	121	123	131	124	126	186	153	164
2	146	142	144	132	123	127	132	123	128	195	167	175
3	146	138	142	135	126	131	139	128	133	200	163	178
4	149	140	144	140	131	136	---	---	---	192	175	181
5	151	147	149	155	135	144	---	---	---	182	168	172
6	153	150	152	163	149	155	---	---	---	172	155	163
7	158	151	154	169	155	163	---	---	---	166	146	156
8	159	155	157	177	158	161	---	---	---	161	143	152
9	158	148	155	166	155	160	---	---	---	150	133	143
10	149	143	147	170	157	161	---	---	---	148	137	141
11	151	148	149	178	162	167	---	---	---	162	141	149
12	152	150	151	188	168	174	---	---	---	165	141	153
13	151	140	150	179	165	172	---	---	---	162	141	155
14	154	149	152	187	169	176	133	113	---	157	149	154
15	157	153	155	180	169	174	140	108	121	154	146	150
16	157	155	156	185	173	180	147	102	126	155	142	149
17	158	154	156	192	176	184	152	121	135	155	135	146
18	166	158	162	191	178	186	154	115	139	151	138	145
19	162	160	161	192	156	182	156	135	151	154	139	148
20	163	159	161	168	145	156	156	119	140	155	140	152
21	162	154	159	158	132	146	158	113	136	156	143	150
22	160	157	158	137	129	132	156	132	---	170	149	154
23	160	157	158	137	123	130	161	132	148	163	155	159
24	167	155	160	149	130	137	165	158	161	165	154	160
25	155	117	140	141	131	135	168	160	163	162	148	156
26	117	111	114	140	126	133	164	157	161	161	150	157
27	120	114	116	133	121	126	164	142	157	183	154	167
28	124	116	119	133	120	125	166	142	160	195	158	170
29	---	---	---	131	122	127	165	155	161	193	165	175
30	---	---	---	135	126	131	175	156	165	183	165	169
31	---	---	---	134	125	129	---	---	---	190	171	178
MONTH	167	111	149	192	120	150	---	---	---	200	133	159

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	192	162	173	198	164	182	242	199	227	326	224	271
2	192	167	178	193	171	182	249	203	236	261	186	224
3	226	175	198	200	173	186	265	203	236	218	172	---
4	229	194	209	201	173	189	252	209	241	---	---	---
5	215	194	201	235	180	201	290	218	247	---	---	---
6	195	177	184	232	187	204	255	202	234	---	---	---
7	177	166	172	234	196	207	271	218	240	---	---	---
8	165	147	---	250	176	205	275	202	234	---	---	---
9	---	---	---	241	177	205	268	200	225	---	---	---
10	---	---	---	218	178	200	264	183	222	---	---	---
11	---	---	---	---	---	---	275	212	265	---	---	---
12	---	---	---	---	---	---	377	228	274	---	---	---
13	---	---	---	---	---	---	320	259	287	---	---	---
14	---	---	---	151	127	140	327	247	287	---	---	---
15	---	---	---	162	130	146	332	240	278	---	---	---
16	---	---	---	172	152	164	296	201	265	---	---	---
17	---	---	---	181	171	175	305	211	270	---	---	---
18	---	---	---	186	179	181	335	227	286	---	---	---
19	---	---	---	201	183	191	432	209	275	---	---	---
20	---	---	---	204	164	195	345	207	275	---	---	---
21	---	---	---	161	142	152	332	248	270	---	---	---
22	---	---	---	206	161	185	363	250	281	---	---	---
23	209	173	---	212	190	204	360	231	276	---	---	---
24	217	165	181	215	187	195	369	262	291	---	---	---
25	198	169	183	204	178	190	360	265	305	---	---	---
26	195	167	181	190	155	181	309	242	267	---	---	---
27	201	158	190	202	165	187	293	212	265	---	---	---
28	215	167	195	209	177	197	427	210	264	---	---	---
29	192	152	179	220	187	206	403	212	274	---	---	---
30	207	178	188	234	172	216	290	240	255	---	---	---
31	---	---	---	239	196	223	270	219	254	---	---	---
MONTH	---	---	---	250	127	189	432	183	241	---	---	---

01464040 DELAWARE RIVER AT MARINE TERMINAL, TRENTON, N. J.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	16.5	15.5	16.0	14.5	12.5	13.0	4.0	3.5	3.5	4.0	3.5	3.5
2	15.5	14.0	14.5	15.5	13.5	14.5	4.5	4.0	4.0	3.5	3.0	3.0
3	13.5	12.5	13.0	15.5	14.0	14.5	4.5	4.0	4.0	2.5	2.0	2.5
4	13.0	11.5	12.5	15.5	14.0	15.0	3.5	2.5	3.0	3.5	2.5	3.0
5	13.0	12.0	12.5	16.0	15.0	15.5	3.5	1.5	2.5	3.5	3.0	3.5
6	14.5	12.5	13.5	16.0	14.5	15.0	4.0	2.0	3.0	3.5	2.5	3.0
7	15.0	13.0	14.0	15.0	13.5	14.5	4.0	2.5	3.5	4.5	3.5	3.5
8	15.0	13.0	14.0	13.5	12.0	13.0	7.0	4.0	6.0	4.0	3.0	3.5
9	15.0	13.0	14.0	13.5	11.0	12.0	7.0	5.5	6.5	5.5	4.0	5.0
10	15.5	13.0	14.0	12.5	10.5	11.5	5.5	4.0	4.5	5.5	4.5	5.0
11	16.0	13.5	14.5	12.0	10.0	11.0	4.0	3.5	4.0	6.0	5.0	5.5
12	16.0	14.0	15.0	12.0	10.5	11.0	---	---	---	6.0	5.5	6.0
13	16.0	15.0	15.5	12.0	10.5	11.5	---	---	---	6.0	4.0	5.5
14	15.5	14.5	15.0	10.5	9.5	10.0	---	---	---	4.0	3.0	3.5
15	16.5	15.0	15.5	10.0	8.0	9.0	---	---	---	2.5	1.5	2.0
16	16.0	14.0	15.0	8.0	7.0	7.5	---	---	---	1.5	1.0	1.5
17	14.5	13.0	14.0	7.5	6.5	7.0	---	---	---	1.0	0.0	0.5
18	14.0	12.5	13.5	7.0	6.5	6.5	---	---	---	1.5	0.5	1.0
19	13.0	11.0	12.0	7.5	6.5	7.0	---	---	---	3.0	1.0	1.5
20	11.5	9.5	10.5	8.0	7.0	7.5	---	---	---	3.0	1.5	2.0
21	10.5	8.0	9.0	7.5	7.0	7.0	---	---	---	1.5	0.5	1.0
22	10.0	8.0	9.0	7.0	6.0	6.5	---	---	---	2.0	1.0	1.5
23	10.5	8.5	9.5	6.5	5.5	6.0	4.5	4.0	---	3.0	1.5	2.0
24	11.0	9.0	9.5	6.5	5.5	6.0	4.5	4.0	4.5	3.0	2.0	2.5
25	11.0	9.5	10.0	6.5	5.5	6.0	4.5	4.0	4.5	4.0	3.0	3.5
26	12.0	9.5	10.5	5.5	3.5	4.5	4.0	3.5	4.0	3.5	3.5	3.5
27	12.5	10.0	11.0	4.5	3.0	3.5	4.0	3.5	3.5	3.5	3.0	3.5
28	12.0	10.0	11.0	4.0	3.5	4.0	4.0	3.5	3.5	3.5	3.0	3.0
29	12.5	10.5	11.5	4.0	3.5	4.0	4.0	3.0	3.5	4.0	3.0	3.5
30	12.5	11.5	12.0	4.0	2.5	3.5	4.5	3.5	4.0	4.0	3.5	4.0
31	13.5	12.0	12.5	---	---	---	4.0	3.5	3.5	4.0	3.5	4.0
MONTH	16.5	8.0	12.5	16.0	2.5	9.0	---	---	---	6.0	0.0	3.0

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	3.5	2.5	3.0	5.0	3.5	4.0	7.5	6.0	6.5	14.0	13.0	13.5
2	3.5	2.0	3.0	4.5	3.5	4.0	8.5	7.0	7.5	13.5	12.5	13.0
3	3.0	2.0	2.5	3.5	3.0	3.5	9.0	8.0	8.5	15.5	13.0	14.0
4	2.5	1.5	2.0	3.5	3.0	3.5	---	---	---	15.0	13.5	14.5
5	2.0	1.5	1.5	4.0	2.5	3.5	---	---	---	14.5	12.5	13.5
6	2.5	1.5	2.0	5.0	3.0	4.0	---	---	---	14.5	13.5	14.0
7	3.5	2.5	3.0	5.5	4.0	5.0	---	---	---	15.5	13.5	14.5
8	3.0	2.0	2.5	6.0	5.5	5.5	---	---	---	16.0	13.5	15.0
9	2.5	1.0	2.0	5.5	4.0	5.0	---	---	---	16.0	14.5	15.5
10	2.0	1.0	1.5	4.0	3.5	4.0	---	---	---	16.0	15.0	15.5
11	1.5	1.0	1.5	5.0	3.5	4.5	---	---	---	17.5	15.0	16.5
12	1.5	0.5	1.0	5.5	4.5	5.0	---	---	---	18.0	16.0	17.0
13	1.0	0.5	1.0	6.5	5.0	6.0	---	---	---	18.0	17.5	17.5
14	1.5	1.0	1.0	6.0	5.0	5.5	9.5	9.0	---	18.5	17.0	17.5
15	2.0	1.0	1.5	6.0	4.5	5.0	9.5	8.5	9.0	18.0	17.0	17.5
16	3.0	2.0	2.5	5.5	4.5	5.5	10.0	9.0	9.5	18.5	17.5	18.0
17	3.5	3.0	3.5	7.0	5.5	6.0	12.0	9.5	10.5	19.0	17.5	18.0
18	4.0	3.5	4.0	7.0	6.0	7.0	12.0	11.0	11.5	18.5	18.0	18.0
19	5.5	4.0	4.5	9.0	7.0	8.0	13.0	11.5	12.5	20.0	17.5	19.0
20	5.5	4.0	4.5	9.0	8.0	8.5	13.0	12.0	12.5	21.5	18.5	20.0
21	5.5	4.0	4.5	7.5	6.0	7.0	12.5	11.5	12.0	22.0	20.5	21.0
22	6.0	4.0	5.0	6.5	5.5	6.0	13.0	11.5	---	23.0	21.0	22.0
23	6.0	5.5	6.0	7.0	5.5	6.5	13.5	11.5	12.5	23.5	21.5	22.5
24	6.5	6.0	6.5	7.0	6.5	6.5	14.0	12.5	13.0	24.5	22.5	23.5
25	6.5	4.0	5.5	7.5	7.0	7.0	14.5	13.5	14.0	24.5	21.5	23.0
26	4.0	3.5	3.5	7.5	7.0	7.0	14.5	13.0	14.0	22.0	21.0	21.5
27	4.0	3.5	4.0	6.5	5.5	6.0	14.5	12.5	13.5	23.0	21.0	22.0
28	4.5	3.0	4.0	6.0	5.0	5.5	14.5	13.0	13.5	23.5	21.5	22.5
29	---	---	---	6.0	5.5	5.5	14.0	13.0	13.5	24.0	22.5	23.0
30	---	---	---	6.5	5.5	6.0	14.5	12.0	13.0	23.5	23.0	23.0
31	---	---	---	6.5	5.5	6.0	---	---	---	24.0	22.5	23.0
MONTH	6.5	0.5	3.0	9.0	2.5	5.5	---	---	---	24.5	17.5	18.5

01464040 DELAWARE RIVER AT MARINE TERMINAL, TRENTON, N. J.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	23.5	23.0	23.0	29.5	27.5	28.5	28.0	24.5	26.0	24.5	23.5	24.0
2	24.0	22.5	23.5	29.5	28.0	28.5	30.0	26.0	27.5	24.5	23.5	24.0
3	24.5	23.0	23.5	29.5	28.0	29.0	30.5	27.0	29.0	24.5	23.0	---
4	24.0	22.5	23.5	28.5	27.5	28.0	30.5	28.0	29.0	---	---	---
5	23.0	22.5	23.0	30.0	27.5	29.0	30.0	26.5	28.0	---	---	---
6	22.5	21.0	21.5	31.5	29.0	30.0	29.0	24.5	27.0	---	---	---
7	21.5	19.0	20.0	32.0	29.0	30.0	25.5	22.5	23.5	---	---	---
8	19.0	18.0	---	31.5	29.5	30.5	23.0	21.5	22.5	---	---	---
9	---	---	---	32.0	30.0	30.5	23.5	22.0	23.0	---	---	---
10	---	---	---	30.0	29.0	29.5	24.5	23.0	23.5	---	---	---
11	---	---	---	---	---	---	27.5	23.5	25.0	---	---	---
12	---	---	---	---	---	---	29.5	26.0	27.0	---	---	---
13	---	---	---	---	---	---	30.0	26.5	28.0	---	---	---
14	---	---	---	27.0	26.0	26.5	30.5	26.0	28.5	---	---	---
15	---	---	---	28.0	26.5	27.0	30.5	27.5	28.5	---	---	---
16	---	---	---	28.0	22.0	25.0	28.5	26.0	27.0	---	---	---
17	---	---	---	24.0	22.5	23.0	26.0	25.5	25.5	---	---	---
18	---	---	---	24.5	23.0	24.0	28.0	25.0	26.0	---	---	---
19	---	---	---	25.0	24.0	24.5	28.0	25.5	26.5	---	---	---
20	---	---	---	25.0	24.0	24.5	28.5	25.5	26.5	---	---	---
21	---	---	---	24.0	23.0	23.5	27.5	25.5	26.5	---	---	---
22	---	---	---	24.5	23.0	23.5	28.0	25.5	26.5	---	---	---
23	29.5	28.5	---	25.5	23.5	24.5	27.5	25.5	26.5	---	---	---
24	31.5	28.5	29.5	27.0	24.5	25.5	26.5	25.0	26.0	---	---	---
25	32.0	29.5	30.5	26.0	23.5	24.5	28.0	25.5	26.5	---	---	---
26	29.5	28.5	29.0	23.0	21.5	22.5	28.5	26.5	27.5	---	---	---
27	28.5	27.5	28.0	23.0	21.5	22.5	29.5	26.0	27.5	---	---	---
28	28.5	27.0	27.5	23.5	22.0	23.0	29.0	26.0	27.5	---	---	---
29	28.0	26.5	27.5	24.5	22.5	23.5	29.0	26.5	27.5	---	---	---
30	29.0	27.0	28.0	25.0	23.5	24.0	27.0	26.0	26.5	---	---	---
31	---	---	---	26.5	24.0	25.0	26.5	24.5	25.0	---	---	---
MONTH	---	---	---	32.0	21.5	26.0	30.5	21.5	26.5	---	---	---

01464500 CROSSWICKS CREEK AT EXTONVILLE, N. J.

LOCATION.--40°08'15", long 74°36'02", Mercer County, at bridge at gaging station at Extonville, 0.5 mi (0.8 km) upstream from Pleasant Run, and 0.7 mi (1.1 km) downstream from Mercer-Monmouth County line.

DRAINAGE AREA.--83.6 mi² (217 km²).

PERIOD OF RECORD.--Chemical analyses: Water years 1965-72 (partial-record station), October 1972 to September 1975.
Water temperatures: October 1966 to June 1970.
Sediment records: February 1965 to June 1970.

REMARKS.--Miscellaneous storm sediment samples collected during water years 1971-73.

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	TEMPERATURE (DEG C)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	DISSOLVED OXYGEN (MG/L)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L)	IMMEDIATE COLIFORM (COL. PER 100 ML)	FECAL COLIFORM (EC BROTH) (MPN)	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)	TURBIDITY (JTU)
OCT. 17...	1510	654	13.5	129	6.5	6.2	9.3	--	--	10000	2020	--
NOV. 20...	1420	61	8.0	159	7.5	9.8	2.0	1000	--	250	260	--
MAR. 21...	1000	232	6.0	110	7.4	10.8	2.2	--	110	--	--	20
APR. 22...	0915	91	10.0	325	6.9	9.0	1.7	--	940	50	--	6
MAY 09...	1105	125	13.0	110	6.9	8.6	>8.9	--	240	290	--	10
JUNE 04...	1240	E135	20.2	130	7.0	7.4	6.4	--	130	1120	--	6
JULY 10...	1215	70	23.0	131	6.9	2.4	4.2	--	230	2000	--	16
AUG. 15...	1030	54	22.3	150	6.5	7.0	4.0	--	460	--	--	6
SEP. 10...	0900	41	18.5	192	--	7.6	3.0	--	--	160	--	5

DATE	COLOR (PLATINUM-COBALT UNITS)	TOTAL ORGANIC NITROGEN (N) (MG/L)	AMMONIA NITROGEN (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL ORTHO PHOSPHORUS (P) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)	ALKALINITY AS CACO3 (MG/L)	CARBONATE (CO3) (MG/L)
OCT. 17...	--	--	--	--	--	--	--	--	--	--	--	--
NOV. 20...	--	.60	.02	.01	.91	.62	1.5	.37	.15	5.1	--	--
MAR. 21...	30	.37	.16	.01	.63	.53	1.2	.24	.01	8.4	9	0
APR. 22...	17	.80	1.0	.03	.82	1.8	2.7	34	31	3.5	57	0
MAY 09...	95	.52	.09	.03	.76	.61	1.4	.34	.08	9.3	12	0
JUNE 04...	95	.59	.12	.05	.95	.71	1.7	.32	.02	10	24	0
JULY 10...	60	.70	.14	.06	1.0	.84	1.9	.39	.13	9.6	23	0
AUG. 15...	75	.70	.13	.09	1.2	.83	2.1	.14	.14	8.5	25	0
SEP. 10...	7	.40	.10	.10	1.6	.50	2.3	.06	.03	6.3	32	--

DATE	BICARBONATE (HCO3) (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	TOTAL NONFILTRABLE RESIDUE (MG/L)
OCT. 17...	--	--	--	--	--	--	--	--	--	--	--	--
NOV. 20...	--	--	--	--	--	--	--	--	--	--	--	--
MAR. 21...	11	.7	32	23	11	1.0	3.7	1.9	11	22	85	20
APR. 22...	70	14	45	0	13	3.0	10	9.1	11	25	116	8
MAY 09...	15	3.0	34	22	10	2.2	4.0	2.1	7.6	20	75	27
JUNE 04...	29	4.6	47	23	14	2.9	4.6	2.9	7.5	18	95	21
JULY 10...	28	5.6	45	22	14	2.5	5.4	3.0	9.5	21	122	24
AUG. 15...	31	16	47	21	14	2.8	6.3	3.0	9.0	18	123	27
SEP. 10...	39	--	58	26	18	3.1	7.9	3.5	12	21	123	7

01464600 DELAWARE RIVER AT BRISTOL, PA.-BURLINGTON, N. J. BRIDGE

LOCATION.--Lat 40°04'55", long 74°51'58", Bucks County, at center of river 1,300 ft (396 m) upstream from bridge on a line from the Pennsylvania bank channel station -79.2 to Lehigh range light on New Jersey bank. Water-quality recorder (40°05'45", 74°51'10") located at raw-water intake of Bristol Filtration Plant, 1.2 mi (1.9 km) upstream.

DRAINAGE AREA.--7,160 mi² (18,500 km²).

PERIOD OF RECORD.--Chemical analyses: August 1949 to September 1975.
Water temperatures: March 1953 to September 1975.

EXTREMES.--1974-75:
Specific conductance: Maximum, 302 micromhos Oct. 28; minimum, 107 micromhos Dec. 11.
Dissolved oxygen: Maximum, 13.5 mg/l Feb. 15, 16.
Water temperatures: Minimum, 0.5°C Jan. 17, 18, 19.
pH: Maximum, 8.9 Apr. 19; minimum, 5.8 Oct. 18.
Period of record:
Specific conductance (1968-75): Maximum, 397 micromhos Nov. 1, 1970; minimum, 54 micromhos June 5, 1968.
Dissolved oxygen (1962-75): Maximum, 16.0 mg/l Jan. 12, 1974; minimum, 0.0 mg/l on several days in 1963, 1965, and 1967.
Water temperatures: Maximum, 31.0°C July 9, 1966; minimum, freezing point on many days during winter months.
pH (1968-75): Maximum, 8.9 Apr. 19, 1975; minimum, 4.1 Dec. 26, 1972 and Mar. 7, 1973.

REMARKS.--Samples collected approximately 3 ft (1 m) from bottom. Missing continuous water-quality records are the result of malfunction of sensor or sampling mechanism.

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	DIS-SOLVED NITRITE (N) (MG/L)	DIS-SOLVED NITRATE (N) (MG/L)	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)	DIS-SOLVED ORTHO PHOS-PHATE (PO4) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	BICAR-BONATE (HCO3) (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)
OCT.												
17...	1310	16.0	192	.05	.84	1.7	5.2	40	49	68	28	17
NOV.												
14...	1215	12.0	230	.07	1.0	.51	1.6	43	52	75	32	19
DEC.												
05...	1500	4.0	162	.02	.89	.66	2.0	31	38	59	28	15
JAN.												
09...	1330	3.5	182	.04	.96	.69	2.1	36	44	58	22	15
FEB.												
06...	1325	1.0	154	.04	--	.09	.28	28	34	58	30	16
MAR.												
13...	1305	5.5	161	.02	.84	.05	.15	34	41	55	22	14
APR.												
03...	1317	8.0	134	.02	.60	1.3	4.0	26	32	44	18	11
MAY												
08...	1240	15.0	146	.04	.59	.02	.06	30	37	53	22	14
JUNE												
05...	1330	22.5	169	.07	1.1	.08	.25	34	41	62	29	18
JULY												
10...	1300	27.0	179	.14	1.1	.06	.18	89	108	120	35	37
AUG.												
21...	1300	26.0	235	.14	1.3	.07	.21	54	66	92	38	23
SEP.												
11...	1330	21.0	203	.13	1.7	.71	2.2	48	59	93	45	25

DATE	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)
OCT.											
17...	6.2	6.0	2.1	11	20	.2	2.2	116	106	110	110
NOV.											
14...	7.2	11	2.0	14	30	.1	2.7	127	117	80	100
DEC.											
05...	5.2	7.0	1.8	8.9	24	.1	4.2	98	91	220	70
JAN.											
09...	5.1	8.0	1.3	11	26	.1	5.1	92	100	50	90
FEB.											
06...	4.4	7.3	1.0	10	21	.2	4.7	108	--	100	60
MAR.											
13...	4.9	6.5	1.6	11	24	.2	4.4	108	91	80	80
APR.											
03...	4.1	5.1	1.2	7.9	18	.0	4.0	72	74	90	70
MAY											
08...	4.3	5.9	1.3	8.5	22	.1	3.1	89	80	90	60
JUNE											
05...	4.2	7.1	2.0	9.9	23	.0	5.0	107	95	100	60
JULY											
10...	7.6	7.3	2.0	10	24	.0	4.7	124	151	20	40
AUG.											
21...	8.5	10	2.2	11	31	.1	3.6	149	120	80	10
SEP.											
11...	7.4	8.1	2.1	9.8	25	.2	3.5	147	120	40	30

01464600 DELAWARE RIVER AT BRISTOL, PA.-BURLINGTON, N. J. BRIDGE--Continued

SPECIFIC CONDUCTANCE (MICROMHOS AT 25°C), WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	193	173	185	259	252	255	182	176	179	211	201	205
2	192	159	176	263	254	258	187	177	181	219	199	214
3	154	136	143	269	249	260	206	188	199	219	215	217
4	140	134	136	268	261	264	211	203	205	225	215	219
5	145	136	140	268	253	263	219	208	214	229	223	225
6	155	141	148	269	262	265	221	215	217	235	226	228
7	161	147	154	275	261	265	215	204	210	233	225	230
8	171	158	165	268	253	264	211	201	205	240	229	230
9	182	171	177	269	264	266	209	188	202	258	247	250
10	193	181	188	272	265	268	173	111	128	266	235	255
11	204	191	198	275	257	269	115	107	112	246	229	241
12	209	198	205	272	257	263	126	113	119	229	192	206
13	224	206	213	264	242	254	133	121	128	191	165	182
14	249	208	218	255	237	244	140	131	135	169	149	155
15	227	208	221	240	230	235	148	138	141	169	153	156
16	225	208	218	234	177	206	156	144	148	167	154	160
17	220	213	216	170	154	164	160	153	157	179	164	170
18	217	208	213	158	153	155	182	158	171	182	172	176
19	218	213	215	159	152	155	188	171	175	188	180	183
20	231	213	222	161	154	157	177	172	175	209	183	195
21	233	224	230	175	158	163	180	174	177	218	210	215
22	287	229	270	177	168	173	198	180	184	244	219	230
23	281	248	274	180	174	178	202	179	188	239	230	235
24	275	266	271	181	173	177	194	187	190	247	237	241
25	283	270	274	175	165	170	199	189	194	283	240	253
26	288	274	280	171	160	163	205	195	200	261	243	252
27	290	276	283	170	161	165	201	198	200	259	240	248
28	302	280	288	185	167	172	207	198	201	252	211	230
29	296	274	288	182	175	177	206	200	204	212	193	200
30	296	279	287	179	176	177	211	202	205	212	190	196
31	288	251	271	---	---	---	205	200	202	206	192	200
MONTH	302	134	218	275	152	215	221	107	179	283	149	213

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	205	187	195	155	147	151	176	164	171	200	192	196
2	195	177	184	164	156	160	177	170	173	220	194	203
3	194	181	184	177	163	169	173	167	170	205	199	202
4	191	179	188	179	164	171	181	169	175	213	201	203
5	208	183	194	189	169	177	179	139	157	213	201	206
6	200	179	191	190	179	185	142	132	136	207	193	199
7	214	192	200	207	190	198	141	132	136	196	171	185
8	226	204	212	216	202	210	157	138	146	177	140	164
9	229	216	221	231	212	218	159	148	154	158	140	153
10	228	209	217	227	194	208	168	156	161	147	133	138
11	216	207	211	203	195	199	178	163	166	144	132	135
12	214	205	209	218	198	202	179	169	172	149	138	141
13	228	211	218	217	202	210	180	174	177	153	144	147
14	235	222	227	220	211	214	184	178	181	157	148	153
15	227	221	224	232	213	217	196	181	185	158	143	152
16	236	223	229	219	213	217	192	179	186	145	133	139
17	237	228	232	224	214	217	187	176	181	142	133	135
18	244	229	234	235	219	227	184	170	176	137	133	135
19	256	227	233	231	221	226	180	172	175	137	131	134
20	247	232	235	226	168	208	175	167	171	141	135	138
21	240	226	231	201	163	184	170	163	166	144	137	141
22	232	223	227	160	127	137	169	163	165	149	143	147
23	233	218	224	134	129	132	170	165	166	153	145	149
24	245	220	225	153	131	138	167	161	165	169	152	158
25	231	172	206	153	139	146	168	157	163	175	158	---
26	143	136	---	174	146	152	166	157	161	---	---	---
27	140	132	136	154	145	148	163	156	160	---	---	---
28	150	138	143	157	144	148	171	157	162	---	---	---
29	---	---	---	158	143	145	192	171	183	---	---	---
30	---	---	---	157	145	150	209	188	192	177	159	---
31	---	---	---	178	155	162	---	---	---	169	163	167
MONTH	256	132	209	235	127	181	209	132	168	220	131	161

01464600 DELAWARE RIVER AT BRISTOL, PA.-BURLINGTON, N. J. BRIDGE--Continued

SPECIFIC CONDUCTANCE (MICROMHOS AT 25°C), WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	183	163	170									
2	---	---	---									
3	---	---	---									
4	---	---	---									
5	---	---	---									
6	---	---	---									
7	---	---	---									
8	---	---	---									
9	---	---	---									
10	---	---	---									
11	---	---	---									
12	---	---	---									
13	---	---	---									
14	---	---	---									
15	---	---	---									
16	---	---	---									
17	---	---	---									
18	---	---	---									
19	---	---	---									
20	---	---	---									
21	---	---	---									
22	---	---	---									
23	---	---	---									
24	---	---	---									
25	---	---	---									
26	---	---	---									
27	---	---	---									
28	---	---	---									
29	---	---	---									
30	---	---	---									
31	---	---	---									
MONTH	---	---	---									

DISSOLVED OXYGEN (DO), IN MILLIGRAMS PER LITER, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	7.6	6.6	6.9	9.1	8.4	8.8	12.2	11.9	12.1	12.6	12.0	12.4
2	8.4	7.2	7.9	8.6	8.1	8.4	12.2	12.0	12.1	13.0	12.0	12.4
3	8.7	8.2	8.5	8.3	7.7	8.0	12.2	11.8	12.0	12.6	12.0	12.4
4	9.0	8.5	8.7	8.0	7.5	7.8	11.9	11.5	11.7	12.5	12.0	12.4
5	9.3	8.6	8.9	7.8	7.2	7.5	11.7	11.4	11.5	12.6	12.3	12.5
6	9.4	8.7	9.1	7.3	6.7	7.0	12.0	11.4	11.7	12.5	12.3	12.4
7	9.4	8.8	9.1	6.9	6.5	6.7	12.2	11.8	12.0	12.4	12.2	12.3
8	9.4	8.4	8.9	6.8	6.5	6.6	12.2	11.8	12.0	12.4	12.3	---
9	8.7	8.2	8.5	6.9	6.4	6.6	12.0	10.5	11.3	11.8	11.5	---
10	8.4	8.0	8.2	7.2	6.4	6.7	11.6	10.6	11.2	11.6	11.4	---
11	8.3	7.9	8.1	7.6	6.0	7.0	11.9	11.4	11.7	11.4	10.8	---
12	8.3	7.7	8.0	7.7	6.7	7.3	12.0	11.8	11.9	11.4	11.1	11.2
13	8.4	7.6	8.0	9.0	7.1	8.0	12.0	11.9	12.0	12.0	11.1	11.6
14	8.3	7.6	7.9	9.6	7.9	9.2	12.0	11.4	11.8	12.2	11.8	12.0
15	8.0	7.4	7.7	10.5	9.5	9.9	11.8	11.6	11.8	12.9	12.3	12.5
16	8.1	7.4	7.7	10.9	10.2	10.5	11.8	11.5	11.7	12.9	11.9	12.3
17	7.7	7.3	7.5	10.6	9.9	10.2	11.6	11.0	11.4	13.0	12.2	12.7
18	7.6	7.3	7.5	10.7	10.2	10.5	11.4	10.9	11.3	13.1	12.4	12.8
19	7.6	7.1	7.3	10.8	8.0	10.1	11.8	11.4	11.6	13.0	12.0	12.5
20	8.1	7.1	7.5	10.1	9.9	10.0	12.0	11.7	11.9	12.7	11.9	12.5
21	8.8	7.9	8.3	10.4	9.7	10.1	12.1	11.9	12.0	12.5	11.9	12.3
22	9.5	8.5	8.8	10.2	9.5	10.0	12.0	11.8	11.9	13.0	11.9	12.7
23	9.7	8.8	9.2	9.9	9.6	9.8	11.9	11.6	11.8	13.1	12.9	13.0
24	9.8	8.8	9.4	10.4	9.9	10.2	12.0	11.6	11.8	13.0	12.8	12.9
25	9.9	9.1	9.6	11.2	10.4	10.7	11.9	11.7	11.8	12.9	12.6	12.8
26	10.1	9.5	9.8	11.6	10.8	11.2	11.8	11.6	11.7	12.7	12.1	12.5
27	9.8	9.4	9.6	11.7	11.5	11.5	11.7	11.5	11.6	12.3	12.0	12.2
28	9.7	9.1	9.4	11.9	11.5	11.6	11.8	11.5	11.7	12.3	11.8	12.0
29	9.4	8.8	9.1	12.1	11.6	11.9	11.7	11.6	11.7	12.2	11.9	12.0
30	9.4	8.7	9.1	12.1	11.9	12.0	11.7	11.5	11.6	12.1	11.8	12.0
31	9.4	8.6	9.0	---	---	---	12.6	11.6	12.2	11.9	11.7	11.8
MONTH	10.1	6.6	8.5	12.1	6.0	9.2	12.6	10.5	11.8	13.1	10.8	12.3

01464600 DELAWARE RIVER AT BRISTOL, PA.-BURLINGTON, N. J. BRIDGE--Continued

DISSOLVED OXYGEN (DO), IN MILLIGRAMS PER LITER, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	12.1	11.8	12.0	12.3	12.1	12.1	12.0	11.5	11.9	9.8	9.3	9.6
2	12.4	12.0	12.2	12.2	11.9	12.1	11.8	11.5	11.7	10.0	9.3	9.6
3	12.6	12.0	12.4	12.1	11.7	12.0	11.6	11.0	11.3	9.9	9.2	9.5
4	12.7	12.3	12.5	12.5	11.6	12.2	11.8	9.9	10.7	9.4	8.8	9.1
5	13.1	12.4	12.7	12.8	11.9	12.7	11.7	10.9	11.4	10.1	9.0	9.4
6	13.1	12.9	13.0	12.8	12.5	12.6	12.1	11.7	11.9	9.0	8.3	8.6
7	13.0	12.8	12.9	12.6	12.4	12.5	12.1	11.9	12.0	8.9	8.5	8.7
8	12.9	12.5	12.7	12.5	12.0	12.2	12.2	11.7	12.0	9.0	8.3	8.7
9	12.8	12.5	12.6	---	---	---	11.9	11.5	11.8	9.0	8.4	8.7
10	12.7	12.5	12.6	12.0	11.7	---	11.8	9.9	11.6	9.0	8.4	8.7
11	13.0	12.6	12.8	12.6	11.7	11.9	11.5	11.2	11.4	8.8	7.9	8.5
12	13.3	12.9	13.1	12.5	11.8	12.0	11.4	11.1	11.2	9.2	8.4	8.8
13	13.3	13.1	13.2	12.0	11.7	11.9	11.2	10.7	11.0	9.1	8.5	8.7
14	13.4	13.0	13.3	11.8	11.5	11.7	10.9	10.8	10.9	8.5	7.8	8.2
15	13.5	13.3	13.4	11.6	11.4	---	11.0	10.7	10.9	8.0	7.7	7.8
16	13.5	13.3	13.4	11.6	11.4	11.5	11.0	10.5	10.8	8.3	7.7	8.0
17	13.4	13.2	13.4	12.1	11.5	11.8	10.6	10.3	10.5	8.2	7.5	7.8
18	13.6	12.6	13.0	12.2	11.9	12.0	10.7	10.3	10.5	8.2	7.5	7.8
19	12.7	12.3	12.5	12.0	11.7	11.8	10.5	10.0	10.3	8.2	5.9	7.7
20	12.4	12.1	12.3	11.7	10.7	11.1	10.0	9.6	9.9	8.7	7.5	8.1
21	12.1	11.9	12.0	11.2	10.7	10.9	9.7	9.4	9.6	8.3	7.6	7.9
22	12.2	12.0	12.1	11.8	11.1	11.5	10.1	9.3	9.8	8.2	7.2	7.6
23	12.3	12.1	12.2	11.7	11.5	11.6	10.5	9.6	10.1	8.2	7.1	7.5
24	12.3	11.8	11.8	11.7	11.5	11.6	10.6	9.9	10.2	8.2	7.1	7.6
25	11.4	10.8	11.2	11.6	11.2	11.4	10.4	9.7	10.1	7.7	7.1	7.4
26	12.1	11.8	11.9	11.6	10.6	11.3	10.0	9.0	9.4	7.0	6.7	6.9
27	12.3	12.0	12.1	11.8	11.5	11.7	9.1	8.5	8.8	7.3	6.4	6.8
28	12.2	11.9	12.1	12.2	11.9	12.1	8.9	8.4	8.6	7.8	6.6	7.3
29	---	---	---	12.4	12.2	12.3	10.0	8.5	9.5	8.2	7.0	7.6
30	---	---	---	12.2	12.1	12.2	10.1	9.5	9.9	7.8	7.0	---
31	---	---	---	12.1	11.8	12.0	---	---	---	---	---	---
MONTH	13.5	10.8	12.6	12.8	10.6	11.9	12.2	8.4	10.7	10.1	5.9	8.2

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	18.5	16.5	17.5	13.0	11.5	12.0	5.0	4.0	4.5	3.5	3.5	3.5
2	17.0	15.5	16.0	13.5	12.0	13.0	5.0	4.5	4.5	4.0	3.0	3.5
3	15.5	14.0	15.0	14.0	13.5	13.5	4.5	4.5	4.5	3.0	3.0	3.0
4	14.5	13.5	14.0	14.5	13.5	14.0	4.5	4.0	4.5	3.5	3.0	3.0
5	14.0	12.0	13.5	15.0	14.0	14.5	4.0	4.0	4.0	3.5	3.0	3.0
6	13.5	13.0	13.0	15.0	14.5	15.0	4.0	3.5	3.5	3.0	2.0	2.5
7	13.5	13.0	13.5	15.0	14.5	14.5	4.0	3.5	3.5	4.0	3.0	3.0
8	14.0	13.0	13.5	14.5	14.0	14.5	5.5	4.0	4.5	3.5	3.0	---
9	14.0	13.5	14.0	14.5	14.0	14.0	6.5	4.5	5.5	4.0	3.5	---
10	14.5	14.0	14.0	14.0	13.5	13.5	6.0	4.5	5.0	4.5	3.5	4.0
11	14.5	14.0	14.5	13.5	12.0	13.0	4.5	4.0	4.0	5.0	4.0	4.5
12	15.0	14.0	14.5	14.0	12.0	13.0	5.0	4.0	4.0	5.5	4.5	5.0
13	15.0	14.0	15.0	13.5	11.5	12.5	4.5	4.0	4.0	5.5	4.5	5.0
14	15.5	14.5	15.0	12.0	11.0	11.5	4.5	4.5	4.5	5.0	3.5	4.5
15	16.0	14.5	15.5	11.5	10.0	11.0	5.5	4.5	4.5	4.0	1.5	3.0
16	15.5	15.0	15.5	10.0	9.0	9.5	5.0	4.5	5.0	2.0	1.0	1.5
17	15.5	14.0	15.0	9.0	8.5	8.5	5.5	4.5	5.0	1.0	0.5	1.0
18	15.0	14.0	14.5	9.0	8.0	8.0	5.0	4.0	4.5	1.0	0.5	0.5
19	14.0	13.0	13.5	8.0	7.0	7.5	4.5	3.5	3.5	1.5	0.5	1.0
20	13.0	11.5	12.5	8.0	7.0	7.0	4.0	3.0	3.0	1.5	1.0	1.5
21	11.5	10.5	11.0	8.0	7.0	7.0	4.0	3.0	3.0	1.5	1.0	1.5
22	11.0	10.0	10.5	8.0	7.0	7.0	4.0	3.0	3.0	2.0	1.0	1.5
23	10.5	10.0	10.0	7.0	6.5	7.0	4.0	3.0	3.5	2.0	1.5	2.0
24	10.0	8.5	10.0	7.0	6.5	6.5	3.5	3.0	3.5	3.0	2.0	2.5
25	10.0	9.5	10.0	6.5	6.0	6.0	3.5	3.0	3.5	4.0	3.0	3.5
26	10.5	10.0	10.0	6.0	5.5	5.5	3.5	3.5	3.5	4.5	3.5	4.0
27	10.5	9.0	10.0	5.5	5.0	5.5	3.5	3.0	3.0	5.0	4.0	4.0
28	11.0	10.0	10.5	5.5	4.5	5.0	3.0	3.0	3.0	4.0	4.0	4.0
29	11.0	10.5	11.0	5.0	4.0	4.5	3.0	3.0	3.0	4.5	4.0	4.0
30	11.5	11.0	11.0	4.5	4.0	4.0	3.5	3.0	3.0	4.5	4.0	4.5
31	12.0	11.0	11.5	---	---	---	3.5	3.0	3.5	5.0	4.5	4.5
MONTH	18.5	8.5	13.0	15.0	4.0	10.0	6.5	3.0	4.0	5.5	0.5	3.0

DELAWARE RIVER BASIN

01464600 DELAWARE RIVER AT BRISTOL, PA.-BURLINGTON, N. J. BRIDGE--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	4.5	4.0	4.5	4.5	4.0	4.0	8.0	6.5	7.0	14.5	14.0	14.0
2	4.0	3.5	4.0	4.5	4.0	4.0	9.5	8.0	8.5	14.5	14.0	14.0
3	4.0	3.5	3.5	4.0	3.5	4.0	9.5	9.0	9.5	15.0	14.0	14.5
4	4.0	3.0	3.5	3.5	3.0	3.5	9.5	7.0	8.5	15.0	14.5	14.5
5	3.0	3.0	3.0	4.0	2.0	3.0	7.0	5.5	6.0	15.0	14.5	14.5
6	3.0	3.0	3.0	4.5	3.0	3.5	6.0	4.5	5.0	14.5	14.0	14.5
7	3.5	3.0	3.0	4.5	3.5	4.0	5.5	4.0	4.5	14.5	14.0	14.5
8	4.0	3.0	3.0	5.0	4.5	5.0	6.0	4.5	5.5	15.5	14.0	15.0
9	3.5	3.0	3.5	5.0	4.5	5.0	7.0	5.5	6.5	15.5	15.0	15.5
10	3.5	3.0	3.5	5.5	4.5	4.5	8.0	6.5	7.0	16.0	15.0	15.5
11	3.5	3.0	3.0	5.0	4.5	4.5	9.0	7.0	8.5	16.0	15.0	15.5
12	3.0	2.0	2.5	5.5	4.5	4.5	9.5	8.5	9.0	17.0	15.5	16.0
13	2.0	1.5	2.0	5.5	4.5	5.0	10.0	9.0	9.5	18.0	17.0	17.5
14	1.5	1.5	1.5	5.5	5.0	5.5	10.0	9.5	10.0	19.0	17.0	18.5
15	1.5	1.0	1.5	6.0	5.0	5.5	10.0	9.0	9.5	19.0	18.0	18.5
16	3.0	1.5	2.0	5.5	5.0	5.5	10.0	9.5	9.5	19.0	18.0	18.5
17	3.5	2.0	3.0	7.0	5.5	6.0	10.0	9.5	10.0	19.5	18.0	19.0
18	4.0	3.5	4.0	7.0	6.0	6.5	11.5	10.0	10.5	19.5	17.0	18.5
19	5.5	4.5	5.0	8.5	6.5	7.5	13.0	11.0	12.0	19.5	18.0	19.0
20	6.0	5.0	5.5	10.0	8.5	9.5	13.5	12.0	13.0	20.5	18.5	19.5
21	6.0	5.5	5.5	9.5	8.5	9.0	13.5	12.0	13.0	21.0	20.0	20.5
22	6.5	5.5	6.0	8.5	6.5	7.5	13.5	12.0	13.0	22.0	20.5	21.5
23	6.5	6.0	6.0	8.0	6.5	7.0	13.5	12.0	13.0	23.5	22.0	22.5
24	8.0	6.0	6.5	8.0	7.0	8.0	14.0	13.0	13.5	24.5	21.0	23.5
25	8.0	6.0	6.5	9.0	8.0	8.5	14.5	13.5	14.0	24.0	23.5	23.5
26	4.5	4.0	4.0	9.5	8.0	8.5	15.0	14.0	14.5	23.5	23.0	23.5
27	4.5	3.5	4.0	8.0	6.5	7.5	15.0	14.5	14.5	23.5	22.0	23.0
28	4.0	4.0	4.0	8.0	6.5	6.5	14.5	14.0	14.5	23.5	22.0	23.0
29	---	---	---	7.0	6.0	6.5	14.5	14.0	14.5	24.0	23.0	23.5
30	---	---	---	8.0	6.5	6.5	15.0	14.0	14.5	23.5	23.5	23.5
31	---	---	---	8.0	6.0	6.5	---	---	---	24.0	23.5	24.0
MONTH	8.0	1.0	4.0	10.0	2.0	6.0	15.0	4.0	10.5	24.5	14.0	18.5

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	24.0	23.5	24.0									
2	25.5	23.5	24.5									
3	24.0	23.0	---									
4	---	---	---									
5	---	---	---									
6	---	---	---									
7	---	---	---									
8	---	---	---									
9	---	---	---									
10	---	---	---									
11	---	---	---									
12	---	---	---									
13	---	---	---									
14	---	---	---									
15	---	---	---									
16	---	---	---									
17	---	---	---									
18	---	---	---									
19	---	---	---									
20	---	---	---									
21	---	---	---									
22	---	---	---									
23	---	---	---									
24	---	---	---									
25	---	---	---									
26	---	---	---									
27	---	---	---									
28	---	---	---									
29	---	---	---									
30	---	---	---									
31	---	---	---									
MONTH	---	---	---									

DELAWARE RIVER BASIN

01464600 DELAWARE RIVER AT BRISTOL, PA.-BURLINGTON, N. J. BRIDGE--Continued

pH (UNITS), WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	6.7	6.4	6.6	6.9	6.7	6.8	6.9	6.7	6.8	6.9	6.9	6.9
2	6.8	6.6	6.7	6.8	6.7	6.7	6.9	6.8	6.8	7.0	6.8	6.9
3	6.7	6.6	6.6	6.8	6.5	6.7	6.9	6.8	6.9	7.0	6.8	6.9
4	6.6	6.4	6.6	6.7	6.5	6.7	6.8	6.7	6.8	6.9	6.9	6.9
5	6.7	6.6	6.6	6.7	6.6	6.6	6.8	6.8	6.8	7.1	6.8	6.9
6	6.7	6.5	6.6	6.7	6.4	6.6	6.8	6.8	6.8	7.0	6.9	6.9
7	6.7	6.4	6.6	6.6	6.5	6.6	7.0	6.8	6.8	7.0	6.9	7.0
8	6.7	6.6	6.7	6.6	6.4	6.6	7.3	6.9	---	7.0	7.0	---
9	6.8	6.7	6.7	6.6	6.5	6.6	6.9	6.7	6.8	---	---	---
10	6.8	6.5	6.8	6.7	6.4	6.6	6.7	6.1	6.4	---	---	---
11	6.9	6.5	6.8	6.7	6.4	6.7	6.4	6.0	6.3	---	---	---
12	6.8	6.5	6.8	6.9	6.6	6.8	6.5	6.2	6.4	7.3	7.0	---
13	6.9	6.8	6.8	6.9	6.8	6.8	6.5	6.4	6.5	7.1	6.2	6.8
14	6.9	6.8	6.8	6.9	6.6	6.9	6.6	6.5	6.5	6.4	6.3	6.3
15	6.9	6.6	6.8	6.9	6.6	6.9	6.6	6.3	6.5	6.4	6.3	6.3
16	7.1	6.0	6.5	6.9	6.8	6.9	7.2	6.6	6.9	6.4	6.2	6.4
17	6.1	6.0	6.0	6.8	6.5	6.8	7.1	6.5	6.8	6.5	6.2	6.4
18	6.8	5.8	6.0	6.8	6.5	6.7	6.8	6.4	6.6	6.5	6.4	6.5
19	6.0	5.9	5.9	6.8	6.5	6.7	6.6	6.3	6.6	6.5	6.5	6.5
20	6.1	5.8	6.0	7.0	6.4	6.7	6.6	6.6	6.6	6.5	6.4	6.5
21	6.2	6.0	6.1	6.8	6.5	6.8	6.6	6.4	6.6	6.5	6.5	6.5
22	6.9	6.1	6.7	6.9	6.5	6.8	6.7	6.4	6.6	6.8	6.5	6.7
23	6.9	6.9	6.9	6.9	6.6	6.9	6.7	6.6	6.6	6.8	6.7	6.7
24	6.9	6.9	6.9	7.0	6.9	7.0	6.8	6.4	6.7	6.7	6.7	6.7
25	7.0	6.9	6.9	7.0	6.5	6.9	6.8	6.7	6.8	6.8	6.5	6.7
26	6.9	6.7	6.9	6.8	6.7	6.7	6.7	6.7	6.7	6.8	6.7	6.8
27	6.9	6.8	6.9	6.7	6.7	6.7	6.7	6.7	6.7	6.8	6.7	6.8
28	6.9	6.8	6.9	6.7	6.5	6.7	6.8	6.5	6.7	6.8	6.8	6.8
29	6.9	6.7	6.8	6.8	6.5	6.7	6.7	6.7	6.7	6.8	6.7	6.8
30	6.9	6.7	6.8	6.8	6.7	6.8	7.0	6.8	6.8	6.7	6.6	6.7
31	7.0	6.8	6.9	---	---	---	6.9	6.7	6.8	6.7	6.7	6.7
MONTH	7.1	5.8	6.6	7.0	6.4	6.7	7.3	6.0	6.7	7.3	6.0	6.7

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	6.8	6.7	6.7	6.5	6.4	6.5	7.1	6.7	6.9	7.0	6.9	7.0
2	6.7	6.7	6.7	6.6	6.4	6.5	6.7	6.4	6.6	7.0	6.9	6.9
3	6.7	6.6	6.7	6.7	6.4	6.6	7.4	6.4	6.7	7.0	6.9	6.9
4	6.8	6.7	6.7	7.2	6.5	6.7	6.7	6.5	6.6	6.9	6.6	6.8
5	6.8	6.7	6.8	6.7	6.5	6.7	6.7	6.4	6.5	7.1	6.8	7.0
6	6.8	6.6	6.7	6.8	6.7	6.7	6.5	6.4	6.4	7.0	6.8	6.8
7	6.8	6.5	6.7	6.8	6.7	6.8	6.5	6.4	6.5	7.0	6.7	6.8
8	6.8	6.6	6.8	6.8	6.8	6.8	6.6	6.4	6.6	6.7	6.6	6.6
9	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.6	6.7	6.6	6.5	6.6
10	6.8	6.7	6.8	6.9	6.7	6.8	6.8	6.5	6.7	6.6	6.4	6.5
11	6.8	6.7	6.8	6.9	6.8	6.8	6.8	6.7	6.7	6.5	6.4	6.4
12	6.9	6.8	6.8	6.9	6.8	6.9	6.8	6.7	6.8	6.6	6.3	6.5
13	6.9	6.8	6.8	6.9	6.8	6.8	6.8	6.7	6.8	6.6	6.5	6.6
14	6.9	6.8	6.9	7.2	6.9	7.0	6.9	6.8	6.8	6.6	6.5	6.6
15	6.9	6.8	6.9	7.3	7.1	7.2	7.1	6.8	6.9	6.5	6.5	6.5
16	6.9	6.8	6.9	7.5	7.1	7.4	6.9	6.8	6.9	6.6	6.4	6.4
17	6.9	6.9	6.9	7.7	7.5	7.6	6.8	6.7	6.8	6.5	6.3	6.4
18	7.1	6.9	6.9	7.7	7.6	7.6	6.9	6.7	6.9	6.6	6.3	6.4
19	7.0	6.9	6.9	7.8	7.6	7.7	6.9	6.9	7.2	6.6	6.3	6.4
20	7.0	6.9	6.9	7.8	7.4	7.6	6.9	6.9	6.9	6.6	6.4	6.5
21	6.9	6.8	6.9	7.6	7.3	7.5	6.9	6.8	6.9	6.6	6.5	6.6
22	6.9	6.8	6.9	7.3	7.1	7.2	7.0	6.8	6.9	6.7	6.4	6.6
23	6.9	6.9	6.9	7.2	7.1	7.2	7.2	6.9	7.0	6.7	6.5	6.6
24	7.0	6.9	---	7.3	6.8	7.1	7.3	7.0	7.2	6.8	6.6	6.6
25	---	---	---	7.1	6.8	6.9	7.3	7.0	7.2	6.8	6.5	6.7
26	6.6	6.3	---	7.0	6.4	6.8	7.1	6.7	6.9	6.7	6.6	6.6
27	6.6	6.0	6.3	6.9	6.9	6.9	6.7	6.6	6.6	6.7	6.6	6.6
28	6.5	6.4	6.4	7.0	6.9	6.9	6.7	6.6	6.6	6.7	6.6	6.6
29	---	---	---	7.0	6.9	6.9	7.0	6.6	6.8	6.8	6.6	6.7
30	---	---	---	7.0	6.9	6.9	7.1	6.9	7.0	6.7	6.2	6.6
31	---	---	---	7.1	6.9	7.0	---	---	---	6.8	6.3	6.6
MONTH	7.1	6.0	6.8	7.8	6.4	7.0	6.9	6.4	6.8	7.1	6.2	6.6

01464600 DELAWARE RIVER AT BRISTOL, PA.-BURLINGTON, N. J. BRIDGE--Continued

pH (UNITS), WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	6.8	6.6	---									
2	6.7	6.4	6.5									
3	6.6	6.4	---									
4	---	---	---									
5	---	---	---									
6	---	---	---									
7	---	---	---									
8	---	---	---									
9	---	---	---									
10	---	---	---									
11	---	---	---									
12	---	---	---									
13	---	---	---									
14	---	---	---									
15	---	---	---									
16	---	---	---									
17	---	---	---									
18	---	---	---									
19	---	---	---									
20	---	---	---									
21	---	---	---									
22	---	---	---									
23	---	---	---									
24	---	---	---									
25	---	---	---									
26	---	---	---									
27	---	---	---									
28	---	---	---									
29	---	---	---									
30	---	---	---									
31	---	---	---									
MONTH	---	---	---									

DELAWARE RIVER BASIN

01465835 SOUTH BRANCH RANCOCAS CREEK AT RETREAT, N. J.

LOCATION.--Lat 39°55'23", long 74°43'05", Burlington County, at bridge on light-duty road, 1.2 mi (1.9 km) southwest of Buddtown, and 1.8 mi (2.9 km) northeast of Beaverville.

DRAINAGE AREA.--44.4 mi² (115.0 km²).

PERIOD OF RECORD.--Chemical analyses: July to September 1975

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	TEMPERATURE (DEG C)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TOTAL ACIDITY AS H+ (MG/L)	DISSOLVED OXYGEN (MG/L)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L)	FECAL COLIFORM (EC BROTH) (MPN)	FECAL COLIFORM (COL. PER 100 ML)	TURBIDITY (JTU)	COLOR (PLATINUM-COBALT UNITS)	TOTAL ORGANIC NITROGEN (N) (MG/L)
JULY 29...	0900	24.1	60	3.8	1.3	5.6	.3	79	130	6	450	.59
AUG. 08...	0830	19.5	75	5.8	--	5.4	2.3	130	430	2	10	.56
SEP. 10...	1730	19.0	120	--	.5	8.2	1.6	--	90	16	6	.90

DATE	AMMONIA NITROGEN (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL ORTHO PHOSPHORUS (P) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)	ALKALINITY AS CACO3 (MG/L)	CARBONATE (CO3) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBON DIOXIDE (CO2) (MG/L)
JULY 29...	.14	.01	.12	.73	.86	.14	.05	35	0	0	0	.0
AUG. 08...	.10	.01	.09	.66	.76	.01	.01	19	0	0	0	.0
SEP. 10...	.10	.00	.16	1.0	1.2	.01	.01	16	0	--	0	--

DATE	TOTAL ACIDITY AS CACO3 (MG/L)	HARDNESS (CA+MG) (MG/L)	NON-CARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	TOTAL NONFILTRABLE RESIDUE (MG/L)
JULY 29...	65	12	12	3.0	1.0	2.8	1.3	5.0	13	34	26
AUG. 08...	--	19	19	5.5	1.2	2.6	1.3	3.0	14	63	41
SEP. 10...	25	17	17	5.0	1.0	2.7	1.3	4.5	26	60	46

DELAWARE RIVER BASIN

01465850 SOUTH BRANCH RANCOCAS CREEK AT VINCENTOWN, N. J.

LOCATION.--Lat 39°56'22", long 74°45'50", Burlington County, 150 ft (46 m) upstream from gaging station, at bridge on Lumberton-Vincentown Road, 0.8 mi (1.3 km) west of Vincentown, 2.9 mi (4.7 km) southeast of Lumberton, and 3.1 mi (5.0 km) upstream from Southwest Branch.

DRAINAGE AREA.--53.3 mi² (138.0 km²).

PERIOD OF RECORD.--Chemical analyses: July to September 1975.

REMARKS.--Miscellaneous chemical samples collected during water years 1925, 59-62.

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	TEMPERATURE (DEG C)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	DISSOLVED OXYGEN (MG/L)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L)	FECAL COLIFORM (EC BROTH) (MPN)	FECAL COLIFORM (COL. PER 100 ML)	TURBIDITY (JTU)	COLOR (PLATINUM-COBALT UNITS)	TOTAL ORGANIC NITROGEN (N) (MG/L)
JULY 29...	1030	29	23.7	68	6.1	6.9	.4	240	220	5	400	.81
AUG. 07...	1030	34	22.0	57	6.7	--	2.1	1600	570	5	70	1.0
SEP. 08...	1030	266	21.0	77	--	7.4	.6	130	10	6	100	.60

DATE	AMMONIA NITROGEN (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL ORTHO PHOSPHORUS (P) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)	ALKALINITY AS CACO3 (MG/L)	CARBONATE (CO3) (MG/L)	BICARBONATE (HCO3) (MG/L)
JULY 29...	.10	.02	.56	.99	1.6	.23	.13	43	2	0	2
AUG. 07...	.20	.01	.23	1.2	1.4	.11	.08	17	2	0	2
SEP. 08...	.12	.01	.22	.72	.95	.06	.03	12	2	--	2

DATE	CARBON DIOXIDE (CO2) (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	TOTAL NONFILTRABLE RESIDUE (MG/L)
JULY 29...	2.5	15	13	4.1	1.1	3.4	1.5	4.3	11	45	22
AUG. 07...	.6	28	27	8.2	1.9	3.2	3.2	4.7	24	91	46
SEP. 08...	--	19	17	5.9	1.0	2.7	1.4	5.1	10	72	102

01465900 SOUTHWEST BRANCH RANCOCAS CREEK AT EAYRESTOWN, N. J.

LOCATION.--Lat 39°56'49", long 74°47'58", Burlington County, at bridge on East Bella Bridge Road, 0.5 mi (0.8 km) west of Eayrestown, 2.7 mi (4.3 km) west of Vincentown, and 0.3 mi (0.5 km) upstream from mouth.

DRAINAGE AREA.--77.0 mi² (199.4 km²).

PERIOD OF RECORD.--Chemical analyses: July to September 1975.

REMARKS.--Miscellaneous chemical samples collected during water years 1925, 59-61.

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	TEMPERATURE (DEG C)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	DISSOLVED OXYGEN (MG/L)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L)	FECAL COLIFORM (EC BROTH) (MPN)	FECAL COLIFORM (COL. PER 100 ML)	TURBIDITY (JTU)	COLOR (PLATINUM-COBALT UNITS)	TOTAL ORGANIC NITROGEN (N) (MG/L)
JULY 29...	1115	23.4	105	6.6	6.5	2.4	920	550	8	100	.57
AUG. 07...	1115	23.0	99	6.5	5.0	3.7	920	6600	7	20	.82
SEP. 08...	1100	21.5	135	—	5.4	4.3	>24000	11100	9	65	.77

DATE	AMMONIA NITROGEN (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL ORTHO PHOSPHORUS (P) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)	ALKALINITY AS CACO3 (MG/L)	CARBONATE (CO3) (MG/L)	BICARBONATE (HCO3) (MG/L)
JULY 29...	.30	.05	.55	.87	1.5	.55	.32	--	15	0	18
AUG. 07...	.10	.01	.40	1.0	1.4	.10	.17	19	8	0	10
SEP. 08...	.33	.07	.82	1.1	2.0	.30	.32	13	18	--	22

DATE	CARBON DIOXIDE (CO2) (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	TOTAL NONFILTRABLE RESIDUE (MG/L)
JULY 29...	7.2	35	20	11	1.8	6.6	2.8	8.6	16	86	22
AUG. 07...	5.1	27	19	10	.5	4.3	2.5	6.1	17	85	33
SEP. 08...	--	34	16	11	1.7	6.3	2.8	7.5	17	96	10

01465915 SOUTH BRANCH RANCOCAS CREEK AT HAINESPORT, N. J.

LOCATION.--Lat 39°58'44", long 74°49'28", Burlington County, at bridge on State Route 38, 0.4 mi (0.6 km) west of intersection of State Route 38 with Hainesport Road, and 1.8 mi (2.9 km) west of intersection of State Route 38 with State Route 541.

DRAINAGE AREA.--156 mi² (404 km²).

PERIOD OF RECORD.--Chemical analyses: July to September 1975.

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	DIS-SOLVED OXYGEN (MG/L)	BIO-CHEM-ICAL OXYGEN DEMAND 5 DAY (MG/L)	FECAL COLI-FORM (EC BROTH) (MPN)	FECAL COLI-FORM (COL. PER 100 ML)	TUR-BID-ITY (JTU)	COLOR (PLAT-INUM-COBALT UNITS)	TOTAL ORGANIC NITRO-GEN (N) (MG/L)
JULY 29...	0830	24.0	103	6.4	4.4	4.9	1300	1200	6	120	1.0
AUG. 07...	0830	22.0	143	6.0	4.4	7.4	2200	12000	17	40	1.1
SEP. 08...	1200	21.5	126	--	6.0	3.6	1700	400	12	100	.71

DATE	AMMONIA NITRO-GEN (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	TOTAL ORTHO PHOS-PHORUS (P) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	CAR-BONATE (CO3) (MG/L)	BICAR-BONATE (HCO3) (MG/L)
JULY 29...	.27	.03	.49	1.3	1.8	.44	.21	20	11	0	13
AUG. 07...	.20	.03	.72	1.3	2.1	.19	.10	17	15	0	18
SEP. 08...	.11	.04	.65	.82	1.5	.20	.07	16	13	--	16

DATE	CARBON DIOXIDE (CO2) (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	TOTAL NON-FILT-RABLE RESIDUE (MG/L)
JULY 29...	8.3	34	23	10	2.2	8.4	3.1	11	19	82	38
AUG. 07...	--	41	26	12	2.6	5.9	3.6	16	27	134	35
SEP. 08...	--	33	20	10	2.0	5.5	2.6	8.6	21	96	51

DELAWARE RIVER BASIN

01465970 NORTH BRANCH RANCOCAS CREEK AT BROWNS MILLS, N. J.

LOCATION.--Lat 39°58'54", long 74°34'48", Burlington County, at bridge on Lakehurst Road, at outflow of Mirror Lake, 1.5 mi (2.4 km) north of Browns Mills Junction, and 2.0 mi (3.2 km) northwest of outflow of Country Lake.

DRAINAGE AREA.--19.5 mi^2 (50.5 km^2).

PERIOD OF RECORD.--Chemical analyses: July to September 1975.

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	DIS-SOLVED OXYGEN (MG/L)	BIO-CHEM-ICAL OXYGEN DEMAND 5 DAY (MG/L)	FECAL COLI-FORM (EC BROTH) (MPN)	FECAL COLI-FORM (COL. PER 100 ML)	TUR-BID-ITY (JTU)	COLOR (PLAT-INUM-COBALT UNITS)	TOTAL ORGANIC NITRO-GEN (N) (MG/L)
JULY 29...	1500	29.5	44	6.2	7.8	1.9	<20	16	5	160	1.2
AUG. 08...	0915	23.5	49	6.4	5.2	1.8	33	30	9	80	.42
SEP. 10...	1145	21.2	46	—	8.6	.8	—	8	5	80	.35

DATE	AMMONIA NITRO-GEN (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	TOTAL ORTHO PHOS-PHORUS (P) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	CAR-BONATE (CO3) (MG/L)	BICAR-BONATE (HCO3) (MG/L)
JULY 29...	.02	.01	.01	1.2	1.2	.08	.02	15	1	0	1
AUG. 08...	.17	.01	.04	.59	.64	.06	.04	14	2	0	3
SEP. 10...	.03	.01	.07	.38	.46	.01	.01	8.6	2	--	3

DATE	CARBON DIOXIDE (CO2) (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	TOTAL NON-FILT-RABLE RESIDUE (MG/L)
JULY 29...	1.8	11	10	2.9	.8	2.1	.8	3.6	6.2	32	15
AUG. 08...	1.9	11	9	3.9	.4	2.6	1.1	3.3	7.6	40	12
SEP. 10...	--	15	12	4.5	.9	3.5	1.0	5.7	8.3	39	2

01466500 MC DONALDS BRANCH IN LEBANON STATE FOREST, N. J.
(Hydrologic bench-mark station)

LOCATION.--Lat 39°53'05", long 74°30'20", Burlington County, water-quality recorder at gaging station at bridge on Butterworth Road, in Lebanon State Forest.

DRAINAGE AREA.--2.31 mi^2 (6.0 km^2).

PERIOD OF RECORD.--Chemical analyses: Water years 1963-67 (partial-record station), October 1968 to September 1975. Water temperatures: October 1960 to September 1975.

EXTREMES.--1974-75:
Specific conductance: Maximum, 79 micromhos Dec. 3, 4; minimum, 21 micromhos Sept. 1.
Water temperatures: Maximum, 21.0°C July 25.
Period of record:
Specific conductance (1968-75): Maximum, 182 micromhos June 16, 1969; minimum, 21 micromhos Sept. 27, 1970, Sept. 1, 1975.
Water temperatures: Maximum, 22.0°C Aug. 1, 1970; minimum, freezing point on many days during winter months.

REMARKS.--Miscellaneous storm sediment samples collected during water years 1969-72, 74-75. Missing continuous water-quality records are the result of malfunction of sensor or sampling mechanism.

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	AIR TEMPERATURE (DEG C)	TEMPERATURE (DEG C)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TOTAL ACIDITY AS H+ (MG/L)	DISSOLVED OXYGEN (MG/L)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L)	IMMEDIATE COLIFORM (COL. PER 100 ML)	FECAL COLIFORM (EC BROTH) (MPN)
OCT.											
10...	0945	2.0	--	10.0	40	4.3	.1	--	--	320	--
NOV.											
19...	1210	1.1	--	7.7	42	4.0	.2	3.4	.2	2	--
DEC.											
26...	1345	2.6	--	5.5	61	3.9	.3	7.0	.6	74	--
JAN.											
16...	1255	3.3	--	2.1	60	3.7	.3	8.6	.4	920	--
FEB.											
20...	1630	3.0	17.5	5.0	59	4.2	.2	8.5	.8	0	--
MAR.											
14...	0840	2.9	--	4.6	35	4.2	.1	8.6	.4	--	<2
APR.											
17...	1215	2.0	--	7.0	47	4.3	.6	5.8	.6	--	23
MAY											
12...	1325	2.7	--	13.0	42	4.0	5.5	3.3	.9	30	2
JUNE											
04...	1200	3.3	--	16.4	50	4.2	.4	3.2	.4	332	2
JULY											
10...	1140	2.3	--	17.0	36	4.2	1.0	2.4	.7	36	--
SEP.											
11...	1330	1.7	--	14.7	33	4.0	.5	2.2	--	16	--

DATE	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)	TURBIDITY (JTU)	COLOR (PLATINUM-COBALT UNITS)	TOTAL ORGANIC NITROGEN (N) (MG/L)	AMMONIA NITROGEN (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)
OCT.											
10...	2	36	--	--	.12	.04	.00	.00	.16	.16	.00
NOV.											
19...	0	22	--	--	--	--	--	--	--	--	.01
DEC.											
26...	2	10	--	--	.11	.00	.00	.02	.11	.11	.00
JAN.											
16...	0	2	--	--	--	--	--	--	--	--	.01
FEB.											
20...	0	0	--	--	--	--	--	--	--	--	.01
MAR.											
14...	<1	<1	1	20	.10	.07	.00	.06	.17	.18	.02
APR.											
17...	--	--	1	24	.07	.02	.01	.00	.09	.09	.00
MAY											
12...	<1	<1	1	32	.13	.00	.00	.01	.13	.14	.00
JUNE											
04...	0	0	1	75	.19	.00	.01	.00	.19	.20	.01
JULY											
10...	0	30	2	100	.44	.01	.00	.01	.45	.46	.01
SEP.											
11...	4	0	--	--	--	--	--	--	--	--	--

01466500 MC DONALDS BRANCH IN LEBANON STATE FOREST, N. J.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TOTAL ORTHO PHOS-PHORUS (P) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	CAR-BONATE (CO3) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	TOTAL ACIDITY AS CACO3 (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)
OCT. 10...	.00	7.3	0	0	0	.0	5.0	3	3	.6	.4
NOV. 19...	--	--	0	--	0	.0	10	7	7	.8	1.2
DEC. 26...	.00	6.0	0	0	0	.0	15	7	7	1.8	.5
JAN. 16...	--	6.8	0	0	0	.0	15	5	5	1.2	.6
FEB. 20...	--	6.3	0	0	0	.0	10	5	5	1.5	.4
MAR. 14...	.03	13	0	0	0	.0	5.0	6	6	1.5	.6
APR. 17...	.00	8.2	0	0	0	.0	30	6	6	1.7	.4
MAY 12...	.00	7.9	0	0	0	.0	273	7	7	2.5	.3
JUNE 04...	.00	--	0	0	0	.0	20	2	2	.5	.2
JULY 10...	.01	17	0	0	0	.0	50	7	7	2.2	.3
SEP. 11...	--	--	0	0	0	.0	25	4	4	1.5	.1

DATE	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	TOTAL FILT-RABLE RESIDUE (MG/L)	TOTAL NON-FILT-RABLE RESIDUE (MG/L)	CYANIDE (CN) (MG/L)
OCT. 10...	1.5	.4	3.2	4.8	.1	3.6	20	15	23	<1	.00
NOV. 19...	2.0	.2	2.9	3.4	.1	4.0	25	15	--	--	--
DEC. 26...	2.0	.0	5.0	9.5	.0	1.9	29	21	--	--	--
JAN. 16...	1.8	.2	3.0	6.8	.1	2.7	42	17	--	--	--
FEB. 20...	1.7	.3	4.4	7.3	.0	2.7	15	19	--	--	--
MAR. 14...	1.8	.7	3.7	7.2	--	--	16	--	--	1	--
APR. 17...	2.3	.2	3.9	7.7	--	--	25	--	--	1	--
MAY 12...	2.3	1.0	5.7	4.5	.1	1.6	24	24	--	0	--
JUNE 04...	1.1	.1	3.7	3.6	--	--	19	--	--	2	--
JULY 10...	1.5	.1	4.2	4.2	--	--	--	--	--	0	--
SEP. 11...	1.2	.1	2.5	6.0	.3	5.0	--	17	--	--	--

DATE	TOTAL IRON (FE) (UG/L)	TOTAL MAN-GANESE (MN) (UG/L)	TOTAL ARSENIC (AS) (UG/L)	TOTAL BARIUM (BA) (UG/L)	TOTAL CAD-MIUM (CD) (UG/L)	TOTAL CHRO-MIUM (CR) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)	TOTAL SELE-NIUM (SE) (UG/L)	TOTAL SILVER (AG) (UG/L)	TOTAL ZINC (ZN) (UG/L)
OCT. 10...	210	70	0	0	0	0	10	3	<.5	0	0	80
SEP. 11...	2100	10	1	0	0	<10	0	13	<.5	0	0	10

RADIOCHEMICAL ANALYSES, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	DIS-SOLVED GROSS BETA AS CS-137 (PC/L)	SUS-PENDED GROSS BETA AS CS-137 (PC/L)	DIS-SOLVED GROSS BETA AS SR90 /Y90 (PC/L)	SUS-PENDED GROSS BETA AS SR90 /Y90 (PC/L)	DIS-SOLVED RA-226 (RADON METHOD) (PC/L)	DIS-SOLVED URANIUM (U) (UG/L)	DIS-SOLVED GROSS ALPHA AS U-NAT. (UG/L)	SUS-PENDED GROSS ALPHA AS U-NAT. (UG/L)
OCT. 10...	2.6	<.4	1.7	<.4	.17	.03	1.3	<.4

01466500 MC DONALDS BRANCH IN LEBANON STATE FOREST, N. J.--Continued

PESTICIDE ANALYSES, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TOTAL ALDRIN (UG/L)	ALDRIN IN BOTTOM MA-TERIAL (UG/KG)	TOTAL LINDANE (UG/L)	LINDANE IN BOTTOM MA-TERIAL (UG/KG)	TOTAL CHLOR-DANE (UG/L)	CHLOR-DANE IN BOTTOM MA-TERIAL (UG/KG)	TOTAL DDD (UG/L)	DDD IN BOTTOM MA-TERIAL (UG/KG)	TOTAL DDE (UG/L)	DDE IN BOTTOM MA-TERIAL (UG/KG)	TOTAL DDT (UG/L)
OCT.											
10...	.00	.0	.00	.0	.0	0	.00	42	.00	27	.00
MAY											
12...	--	.0	--	.0	--	0	--	.4	--	.0	--
SEP.											
11...	.00	--	.00	--	.0	--	.00	--	.00	--	.00

DATE	DDT IN BOTTOM MA-TERIAL (UG/KG)	TOTAL DI-ELDRIN (UG/L)	DI-ELDRIN IN BOTTOM MA-TERIAL (UG/KG)	TOTAL ENDRIN (UG/L)	ENDRIN IN BOTTOM MA-TERIAL (UG/KG)	TOTAL TOX-APHENE (UG/L)	TOX-APHENE IN BOTTOM MA-TERIAL (UG/KG)	TOTAL HEPTA-CHLOR (UG/L)	HEPTA-CHLOR IN BOTTOM MA-TERIAL (UG/KG)	TOTAL HEPTA-CHLOR EPOXIDE (UG/L)
OCT.										
10...	160	.00	.0	.00	.0	0	0	.00	.0	.00
MAY										
12...	.0	--	.0	--	.0	--	0	--	.0	--
SEP.										
11...	--	.00	--	.00	--	0	--	.00	--	.00

DATE	HEPTA-CHLOR EPOXIDE IN BOT-TOM MA-TERIAL (UG/KG)	TOTAL PCB (UG/L)	PCB IN BOTTOM MA-TERIAL (UG/KG)	TOTAL MALA-THION (UG/L)	TOTAL PARA-THION (UG/L)	TOTAL DI-AZINON (UG/L)	TOTAL METHYL PARA-THION (UG/L)	TOTAL 2,4-D (UG/L)	TOTAL 2,4,5-T (UG/L)	TOTAL SILVEX (UG/L)
OCT.										
10...	.0	.0	1	.00	.00	.00	.00	.00	.00	.00
MAY										
12...	.0	--	0	--	--	--	--	--	--	--
SEP.										
11...	--	.0	--	.00	.00	.00	.00	.00	.00	.00

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	TEMPER-ATURE (DEG C)	INSTAN-TANEOUS DIS-CHARGE (CFS)	SUS-PENDED SEDI-MENT (MG/L)	SUS-PENDED SEDI-MENT DIS-CHARGE (T/DAY)
OCT.					
17...	0850	11.6	2.5	0	.00
18...	0945	10.0	2.1	6	.03
NOV.					
19...	1210	7.7	1.1	0	.00
DEC.					
26...	1345	5.5	2.6	5	.04
JAN.					
16...	1255	2.1	3.3	2	.02
FEB.					
20...	1430	5.0	3.0	0	.00
MAR.					
14...	0840	4.6	3.1	1	.01
APR.					
03...	1250	7.5	4.1	1	.01
17...	1215	7.0	2.8	1	.01
MAY					
12...	1325	13.0	2.7	0	.00
14...	1035	13.6	0.4	0	.00
JUNE					
04...	1200	16.4	3.3	0	.00
SEP.					
11...	1330	14.7	2.0	1	.01

01466500 MC DONALDS BRANCH IN LEBANON STATE FOREST, N. J.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS AT 25°C), WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	37	36	36	38	37	38	56	35	38	69	66	68
2	36	35	36	38	37	38	78	60	75	68	67	67
3	35	35	35	38	37	37	79	78	74	67	67	67
4	35	34	35	37	36	36	79	78	79	67	67	67
5	35	34	35	37	36	36	---	---	---	67	67	67
6	35	34	35	36	36	36	---	---	---	67	67	67
7	35	34	35	36	35	36	---	---	---	69	67	68
8	35	34	35	37	36	37	---	---	---	69	67	69
9	34	34	34	37	36	37	---	---	---	74	68	71
10	34	34	34	37	36	37	---	---	---	77	74	75
11	34	34	34	37	37	37	---	---	---	74	58	65
12	34	34	34	45	38	40	---	---	---	72	60	68
13	34	34	34	47	43	45	---	---	---	74	72	73
14	34	33	34	42	41	42	---	---	---	76	73	75
15	34	33	34	41	40	41	---	---	---	74	72	73
16	59	35	50	40	39	40	---	---	---	73	70	72
17	59	40	54	39	38	38	78	76	---	72	66	68
18	48	42	46	37	37	37	76	73	74	71	67	68
19	43	40	42	37	35	36	74	71	72	71	67	70
20	41	39	40	36	35	36	71	69	70	71	68	69
21	40	39	39	36	34	35	70	67	68	70	67	68
22	40	39	39	35	34	35	68	67	67	70	67	69
23	40	39	40	35	35	35	69	65	67	68	66	67
24	40	39	40	35	34	35	67	65	---	67	65	66
25	40	39	40	35	35	35	---	---	---	67	61	64
26	40	39	40	36	35	35	---	---	---	69	61	66
27	40	39	40	36	35	35	68	66	67	69	68	69
28	40	39	40	36	35	35	68	66	---	68	67	67
29	39	37	38	36	35	35	67	65	---	67	64	66
30	38	37	38	36	35	35	66	62	65	68	61	64
31	38	37	37	---	---	---	68	62	65	67	64	65
MONTH	59	33	38	47	34	37	---	---	---	77	58	68

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	65	63	64	67	65	66	61	59	60	56	55	55
2	65	63	63	66	64	65	59	58	59	55	55	55
3	63	61	---	65	64	65	68	57	64	55	52	53
4	---	---	---	65	63	64	69	62	67	58	52	54
5	---	---	---	64	62	63	69	67	68	59	57	58
6	---	---	---	63	61	62	68	59	64	59	58	58
7	---	---	---	62	61	61	60	57	59	58	56	57
8	---	---	---	62	60	61	58	57	58	56	53	54
9	---	---	---	62	61	62	57	55	56	53	52	53
10	---	---	---	61	60	61	56	55	56	52	52	52
11	---	---	---	61	60	60	56	54	55	52	50	51
12	---	---	---	65	59	61	55	54	55	51	49	50
13	---	---	---	65	63	64	55	54	55	57	50	51
14	---	---	---	73	63	67	55	54	54	58	56	57
15	---	---	---	73	72	73	56	54	54	58	54	56
16	---	---	---	73	73	73	57	55	56	56	54	55
17	---	---	---	73	66	70	56	54	55	56	54	55
18	---	---	---	66	64	64	55	54	54	54	52	53
19	---	---	---	65	64	65	55	54	55	53	50	52
20	---	---	---	74	71	72	54	53	53	51	48	50
21	---	---	---	74	72	73	54	53	53	52	48	50
22	---	---	---	72	71	72	54	53	53	52	49	51
23	---	---	---	71	70	71	53	52	53	51	49	50
24	---	---	---	72	68	70	54	52	52	49	47	48
25	---	---	---	72	70	71	63	55	58	47	46	47
26	---	---	---	72	71	72	67	62	64	47	46	47
27	---	---	---	72	70	71	68	61	64	46	44	45
28	68	66	---	71	62	67	67	59	60	44	42	43
29	---	---	---	63	61	62	59	57	58	43	42	42
30	---	---	---	66	61	63	58	55	56	42	42	42
31	---	---	---	62	60	61	---	---	---	42	41	42
MONTH	---	---	---	74	59	66	69	52	58	59	41	51

DELAWARE RIVER BASIN

01466500 MC DONALDS BRANCH IN LEBANON STATE FOREST, N. J.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS AT 25°C), WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	44	42	43	40	40	40	39	38	38	28	21	26
2	44	42	43	40	40	40	41	39	40	31	27	30
3	43	42	42	39	35	38	46	42	44	34	30	32
4	47	43	46	38	37	36	50	46	48	35	33	34
5	54	46	47	---	---	---	53	50	52	36	34	35
6	59	55	57	---	---	---	53	46	51	36	36	36
7	57	55	56	---	---	---	46	42	44	36	33	36
8	55	52	54	---	---	---	42	40	40	35	34	35
9	52	50	51	---	---	---	40	40	40	35	35	35
10	50	49	50	---	---	---	41	40	40	34	34	34
11	49	48	48	---	---	---	42	41	41	34	33	34
12	53	48	51	---	---	---	42	37	38	33	31	33
13	57	53	55	---	---	---	37	37	37	32	31	32
14	56	54	55	---	---	---	36	36	36	32	32	32
15	54	51	52	---	---	---	35	35	35	32	31	32
16	51	49	50	---	---	---	60	36	45	31	30	31
17	49	48	48	---	---	---	45	38	41	31	31	31
18	48	46	47	---	---	---	38	33	36	31	30	30
19	46	45	46	---	---	---	32	32	32	31	30	30
20	46	44	45	---	---	---	31	31	31	31	30	31
21	44	43	44	---	---	---	31	31	31	31	28	31
22	43	41	42	---	---	---	30	30	30	31	30	31
23	42	42	42	---	---	---	29	29	29	30	31	33
24	42	42	42	44	43	44	28	28	28	40	32	35
25	43	42	42	52	42	45	27	27	27	41	33	37
26	43	42	42	52	45	46	26	26	26	43	41	42
27	42	41	42	45	41	43	25	25	25	49	42	46
28	41	41	41	41	38	39	24	24	24	50	48	49
29	41	41	41	38	37	37	24	24	24	49	44	49
30	41	40	41	37	37	37	23	23	23	50	43	46
31	---	---	---	38	37	38	22	22	22	---	---	---
MONTH	59	40	47	---	---	---	60	22	35	50	21	35

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	13.5	13.0	13.5	11.0	10.0	10.5	6.5	5.5	6.0	5.0	4.5	5.0
2	13.5	13.0	13.5	11.5	11.0	11.0	7.0	6.5	6.5	---	---	---
3	12.5	12.0	12.5	11.5	11.0	11.5	6.5	5.5	6.0	---	---	---
4	13.0	11.5	12.0	12.0	11.5	11.5	5.5	4.0	4.5	---	---	---
5	11.5	11.0	11.5	12.0	11.5	12.0	---	---	---	---	---	---
6	11.5	11.0	11.0	13.0	12.0	12.5	---	---	---	---	---	---
7	11.5	11.0	11.5	12.5	12.0	12.5	---	---	---	---	---	---
8	12.0	11.0	11.5	13.5	12.5	13.0	---	---	---	---	---	---
9	12.0	11.0	11.5	13.5	12.5	12.5	---	---	---	---	---	---
10	12.0	11.0	12.0	12.5	9.0	10.5	---	---	---	---	---	---
11	12.0	11.0	11.5	9.5	8.5	9.0	---	---	---	---	---	---
12	12.0	11.5	12.0	10.5	9.0	10.0	---	---	---	---	---	---
13	13.0	12.0	12.5	10.0	9.0	9.5	---	---	---	---	---	---
14	12.5	11.0	12.0	9.5	9.0	9.5	---	---	---	---	---	---
15	12.5	12.0	12.5	9.0	8.0	9.0	---	---	---	---	---	---
16	12.5	12.0	12.0	8.5	8.0	8.0	---	---	---	---	---	---
17	12.5	11.5	11.5	8.0	7.0	7.5	---	---	---	---	---	---
18	11.5	10.5	11.0	8.0	7.0	7.5	4.5	3.0	4.0	---	---	---
19	10.5	9.5	10.0	8.0	7.0	7.5	3.5	3.0	3.5	---	---	---
20	10.5	8.0	9.5	8.5	7.5	8.0	4.0	3.0	3.5	---	---	---
21	8.0	7.5	7.5	8.5	8.0	8.0	4.0	3.0	3.5	---	---	---
22	8.0	7.0	7.0	8.0	7.0	7.5	4.0	3.5	4.0	---	---	---
23	8.0	7.0	7.5	7.0	6.5	7.0	4.0	3.5	3.5	---	---	---
24	8.0	7.5	7.5	7.5	6.5	7.0	---	---	---	---	---	---
25	8.5	7.5	8.0	8.0	7.5	7.5	---	---	---	---	---	---
26	9.0	8.0	8.5	7.0	6.5	6.5	---	---	---	---	---	---
27	9.0	8.0	8.0	7.0	6.0	6.5	6.5	3.5	---	---	---	---
28	9.0	7.5	8.5	6.0	5.5	6.0	5.0	4.0	5.0	---	---	---
29	9.5	9.0	9.0	6.0	5.5	6.0	5.0	4.5	5.0	---	---	---
30	10.0	9.5	10.0	6.0	5.5	5.5	5.0	4.0	4.5	---	---	---
31	10.0	10.0	10.0	---	---	---	5.0	4.0	4.5	---	---	---
MONTH	13.5	7.0	10.5	13.5	5.5	9.0	---	---	---	---	---	---

01466500 MC DONALDS BRANCH IN LEBANON STATE FOREST, N. J.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	4.5	4.0	4.0	6.0	5.0	5.5	10.0	9.5	9.5
2	---	---	---	4.0	3.5	3.5	6.5	6.0	6.5	10.0	9.5	9.5
3	---	---	---	3.5	2.5	3.0	7.5	6.5	7.0	10.5	9.0	10.0
4	---	---	---	2.5	2.0	2.5	6.0	4.0	5.0	10.5	10.0	10.5
5	---	---	---	2.5	1.5	2.0	3.5	3.0	3.5	10.5	9.5	10.0
6	---	---	---	3.0	2.0	2.5	3.5	3.0	3.5	11.0	10.0	10.5
7	---	---	---	3.5	2.5	3.0	4.0	3.0	3.5	11.5	10.5	11.0
8	---	---	---	4.0	3.5	4.0	4.5	3.5	4.0	11.5	10.5	11.0
9	---	---	---	3.5	2.5	3.0	5.0	4.0	4.5	12.0	11.0	11.5
10	---	---	---	2.5	2.0	2.5	5.5	4.5	5.0	12.0	11.5	12.0
11	---	---	---	3.0	2.5	2.5	5.5	4.0	5.0	12.5	11.5	12.0
12	---	---	---	3.5	2.5	3.0	5.5	5.0	5.0	13.0	12.0	12.5
13	---	---	---	4.5	3.5	4.0	5.5	4.5	5.0	13.5	12.5	13.0
14	---	---	---	4.5	3.5	4.0	5.5	4.5	5.0	14.5	13.0	14.0
15	---	---	---	3.5	3.0	3.5	6.5	4.5	5.5	15.5	14.0	15.0
16	---	---	---	3.5	2.5	3.0	6.5	5.5	6.0	16.0	15.0	15.5
17	---	---	---	4.0	3.0	3.5	7.5	6.0	6.5	15.5	14.5	15.0
18	---	---	---	4.0	3.0	3.5	8.0	6.5	7.5	15.5	15.0	15.0
19	---	---	---	6.5	4.0	5.0	9.5	8.0	8.5	16.0	15.0	15.5
20	---	---	---	6.5	6.0	6.5	9.5	9.0	9.5	16.5	15.0	16.0
21	---	---	---	6.5	5.5	6.0	9.5	8.5	9.0	17.0	16.0	16.5
22	---	---	---	7.0	6.0	6.5	8.5	8.0	8.0	18.0	16.5	17.5
23	---	---	---	7.5	7.0	7.0	8.5	7.5	8.0	18.0	17.0	17.5
24	---	---	---	7.5	6.5	7.0	9.5	8.5	9.0	19.0	17.5	18.5
25	---	---	---	9.0	7.5	8.5	10.5	9.5	10.0	19.0	16.0	17.5
26	---	---	---	8.5	6.5	7.5	11.0	10.0	10.5	16.5	15.5	16.0
27	---	---	---	6.0	5.0	5.5	10.5	9.5	10.0	17.0	16.0	16.5
28	4.0	4.0	---	5.0	4.0	4.5	9.5	8.5	9.0	17.5	16.5	17.0
29	---	---	---	5.5	4.5	5.0	10.0	9.5	9.5	16.5	16.0	16.5
30	---	---	---	6.0	5.5	5.5	10.5	9.5	10.0	16.5	16.0	16.0
31	---	---	---	5.5	5.0	5.5	---	---	---	17.0	16.5	17.0
MONTH	---	---	---	9.0	1.5	4.5	11.0	3.0	7.0	19.0	9.0	14.0

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	17.5	17.0	17.5	17.0	16.5	16.5	18.5	17.5	18.0	16.5	14.5	16.5
2	18.0	17.0	17.5	16.5	15.5	16.0	19.0	17.5	18.5	17.0	16.0	16.5
3	17.0	16.5	17.0	17.0	16.0	16.5	19.5	18.5	19.0	16.5	15.5	16.5
4	17.0	16.0	16.5	17.5	17.0	17.0	19.5	19.0	19.0	15.5	15.0	15.5
5	16.5	15.5	16.0	17.5	17.0	17.0	20.0	19.0	19.5	16.0	15.0	15.5
6	17.0	16.5	16.5	17.0	16.5	17.0	20.5	19.0	19.5	16.0	15.5	15.5
7	17.0	16.0	16.5	17.0	16.5	17.0	19.5	18.0	19.0	16.0	15.5	16.0
8	16.5	15.5	15.5	17.0	16.5	16.5	18.0	17.0	17.5	16.5	16.0	16.0
9	15.0	14.5	15.0	17.0	16.5	16.5	18.0	16.5	17.0	16.5	15.0	16.0
10	15.0	13.5	14.5	---	---	---	17.5	16.5	17.0	15.0	14.0	14.5
11	15.0	14.0	14.5	---	---	---	18.5	17.0	17.5	14.5	14.0	14.0
12	15.5	14.5	15.0	---	---	---	19.5	18.0	18.5	15.5	14.5	15.0
13	17.5	15.5	16.5	---	---	---	19.0	18.0	18.5	15.0	13.5	14.5
14	17.5	16.5	17.0	---	---	---	19.5	18.0	18.5	14.0	12.5	13.0
15	17.5	17.0	17.0	---	---	---	18.5	18.0	18.0	13.0	12.0	12.5
16	18.0	17.0	17.5	---	---	---	20.5	18.0	19.5	13.0	12.5	12.5
17	19.0	17.5	18.0	---	---	---	20.0	19.5	20.0	13.5	12.5	13.0
18	19.5	18.0	19.0	---	---	---	20.5	20.0	20.0	13.5	13.0	13.0
19	19.5	19.0	19.5	---	---	---	20.0	18.5	19.5	15.0	13.5	14.5
20	19.5	19.0	19.5	---	---	---	19.5	18.0	18.5	15.5	15.0	15.0
21	19.0	17.5	18.0	---	---	---	18.0	16.5	17.5	15.5	14.5	15.0
22	17.5	17.0	17.0	---	---	---	19.5	18.0	18.5	15.0	14.0	14.5
23	17.5	16.5	17.0	---	---	---	18.5	18.0	18.0	15.0	14.0	14.5
24	18.5	17.5	18.0	20.0	19.5	19.5	18.0	17.5	18.0	16.5	15.0	15.5
25	19.0	18.0	18.5	21.0	19.5	20.0	19.0	18.0	18.5	16.5	15.5	16.0
26	18.5	17.5	18.0	20.5	19.0	19.5	20.0	18.5	19.0	18.0	16.5	17.0
27	17.5	17.0	17.5	18.5	17.0	18.0	20.0	18.5	19.0	18.5	17.0	18.0
28	18.0	17.0	17.5	18.5	17.0	18.0	18.5	17.5	18.0	16.5	15.0	16.0
29	18.0	17.5	17.5	18.5	17.0	18.0	17.5	16.5	17.0	14.5	13.0	13.5
30	18.0	17.0	17.5	18.0	17.0	17.5	18.0	17.0	17.5	14.0	13.0	13.5
31	---	---	---	18.0	17.0	17.5	17.0	16.5	17.0	---	---	---
MONTH	19.5	13.5	17.0	---	---	---	20.5	16.5	18.5	18.5	12.0	15.0

DELAWARE RIVER BASIN

01466900 GREENWOOD BRANCH AT NEW LISBON, N. J.

LOCATION.--Lat 39°57'23", long 74°37'39", Burlington County, at bridge on Springfield Road, 0.15 mi (0.24 km) south of intersection of Springfield Road and Penn Central Railroad, and 1.8 mi (2.9 km) northeast of Magnolia.

DRAINAGE AREA.--80.7 mi² (209.0 km²).

PERIOD OF RECORD.--Chemical analyses: July to September 1975.

REMARKS.--Miscellaneous chemical samples collected during water years 1953, 57, 58, 66, 68, 69, 72.

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	TEMPERATURE (DEG C)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TOTAL ACIDITY AS H+ (MG/L)	DISSOLVED OXYGEN (MG/L)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L)	FECAL COLIFORM (EC BROTH) (MPN)	FECAL COLIFORM (COL. PER 100 ML)	TURBIDITY (JTU)	COLOR (PLATINUM-COBALT UNITS)	TOTAL ORGANIC NITROGEN (N) (MG/L)
JULY 29...	1415	22.0	40	5.2	.7	7.4	.6	40	22	3	220	.01
AUG. 07...	1420	20.5	44	6.4	--	5.6	2.0	1600	1470	4	180	.05
SEP. 10...	1100	17.0	43	--	.1	8.8	.6	--	4	3	90	.37

DATE	AMMONIA NITROGEN (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL ORTHO PHOSPHORUS (P) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)	ALKALINITY AS CACO3 (MG/L)	CARBONATE (CO3) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBON DIOXIDE (CO2) (MG/L)
JULY 29...	.06	.01	.03	.07	.11	.05	.04	23	0	0	0	.0
AUG. 07...	.09	.01	.04	.94	.99	.01	.01	21	0	0	0	.0
SEP. 10...	.07	.01	.07	.44	.52	.03	.01	9.5	0	--	0	--

DATE	TOTAL ACIDITY AS CACO3 (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	TOTAL NONFILTRABLE RESIDUE (MG/L)
JULY 29...	35	5	5	1.3	.4	2.0	.5	6.0	5.6	31	10
AUG. 07...	--	11	11	3.1	.7	2.0	.7	3.9	8.9	55	22
SEP. 10...	5.0	6	6	2.0	.2	2.0	.5	3.3	6.1	29	2

01467000 NORTH BRANCH RANCOCAS CREEK AT PEMBERTON, N. J.

LOCATION.--Lat 39°58'10", long 74°41'05", Burlington County, at gaging station, at bridge at Pemberton, 12.0 mi (19.3 km) upstream from confluence with South Branch.

DRAINAGE AREA.--111 mi² (287 km²).

PERIOD OF RECORD.--Chemical analyses: August 1962 to March 1969 (partial-record station), July to September 1975.

REMARKS.--Miscellaneous chemical samples collected during water years 1923, 24, 58.

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	TEMPERATURE (DEG C)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TOTAL ACIDITY AS H+ (MG/L)	DISSOLVED OXYGEN (MG/L)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L)	FECAL COLIFORM (EC BROTH) (MPN)	FECAL COLIFORM (COL. PER 100 ML)	TURBIDITY (JTU)	COLOR (PLATINUM-COBALT UNITS)
JULY 29...	1230	106	22.6	42	5.3	.6	6.4	.7	230	116	4	300
AUG. 07...	1330	106	22.0	51	6.4	—	5.0	—	170	110	7	130
SEP. 10...	1000	74	18.5	46	--	—	8.0	1.6	—	8	5	100

DATE	TOTAL ORGANIC NITROGEN (N) (MG/L)	AMMONIA NITROGEN (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL ORTHO PHOSPHORUS (P) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)	ALKALINITY AS CACO3 (MG/L)	CARBONATE (CO3) (MG/L)	BICARBONATE (HCO3) (MG/L)
JULY 29...	.22	.10	.01	.10	.32	.43	.09	.06	32	0	0	0
AUG. 07...	.36	.15	.01	.12	.51	.64	.03	.01	19	2	0	2
SEP. 10...	.39	.03	.01	.12	.42	.55	.04	.02	9.7	1	—	1

DATE	CARBON DIOXIDE (CO2) (MG/L)	TOTAL ACIDITY AS CACO3 (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	TOTAL NONFILTRABLE RESIDUE (MG/L)
JULY 29...	.0	30	11	11	2.9	.8	2.4	.8	3.4	7.0	35	17
AUG. 07...	1.3	—	15	13	4.7	.7	5.0	1.0	3.9	9.1	56	30
SEP. 10...	--	--	12	12	4.0	.6	3.3	.9	3.6	7.0	34	7

01467003 NORTH BRANCH RANCOCAS CREEK AT EWANSVILLE, N. J.

LOCATION.--Lat 39°58'55", long 74°44'11", Burlington County, at bridge on U.S. Route 206, 0.17 mi (0.27 km) upstream from confluence with Powells Run, 0.7 mi (1.1 km) east of Smithville, and 0.8 mi (1.3 km) north of intersection of U.S. Route 206 with State Route 38.

DRAINAGE AREA.--126 mi² (326 km²).

PERIOD OF RECORD.--Chemical analyses: July to September 1975.

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	DIS-SOLVED OXYGEN (MG/L)	BIO-CHEM-ICAL OXYGEN DEMAND 5 DAY (MG/L)	FECAL COLI-FORM (EC BROTH) (MPN)	FECAL COLI-FORM (COL. PER 100 ML)	TUR-BID-ITY (JTU)	COLOR (PLAT-INUM-COBALT UNITS)	TOTAL ORGANIC NITRO-GEN (N) (MG/L)
JULY 29...	1115	23.6	81	6.3	6.9	.4	3500	500	5	200	.05
AUG. 07...	1200	23.0	71	6.5	6.4	2.7	>2400	200	8	150	.97
SEP. 08...	0945	20.0	105	—	7.4	0.5	<20	172	7	100	.46

DATE	AMMONIA NITRO-GEN (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	TOTAL ORTHO PHOS-PHORUS (P) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	CAR-BONATE (CO3) (MG/L)	BICAR-BONATE (HCO3) (MG/L)
JULY 29...	.15	.01	.52	.20	.73	.14	.07	17	0	0	0
AUG. 07...	.13	.01	.19	1.1	1.3	.10	.08	17	3	0	4
SEP. 08...	.18	.01	.20	.64	.85	.08	.03	13	8	—	10

DATE	CARBON DIOXIDE (CO2) (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	TOTAL NON-FILT-RABLE RESIDUE (MG/L)
JULY 29...	.0	—	—	—	—	—	—	5.0	9.6	61	14
AUG. 07...	2.0	22	19	7.8	.5	3.1	1.3	5.3	14	74	21
SEP. 08...	—	17	9	5.0	1.1	8.5	1.3	9.5	19	89	37

01467806 NORTH BRANCH RANCOCAS CREEK AT PINE STREET AT MOUNT HOLLY, N. J.

LOCATION.--Lat 39°59'22", long 74°47'06", Burlington County, at bridge on Pine Street, 0.3 mi (0.5 km) downstream from Mill Dam, and 0.1 mi (0.16 km) north of Saint Andrews Cemetery in Mount Holly.

DRAINAGE AREA.--134 mi² (347 km²).

PERIOD OF RECORD.--Chemical analyses: July to September 1975.

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	DIS-SOLVED OXYGEN (MG/L)	BIO-CHEM-ICAL OXYGEN DEMAND 5 DAY (MG/L)	FECAL COLI-FORM (EC BROTH) (MPN)	FECAL COLI-FORM (COL. PER 100 ML)	TUR-BID-ITY (JTU)	COLOR (PLAT-INUM-COBALT UNITS)	TOTAL ORGANIC NITRO-GEN (N) (MG/L)
JULY 29...	0930	22.0	83	6.6	7.0	2.2	230	740	6	220	.68
AUG. 07...	0940	21.5	80	6.2	6.0	2.0	920	3900	15	80	.59
SEP. 08...	1125	20.0	130	—	8.2	2.5	330	205	7	95	.43

DATE	AMMONIA NITRO-GEN (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	TOTAL ORTHO PHOS-PHORUS (P) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	CAR-BONATE (CO3) (MG/L)	BICAR-BONATE (HCO3) (MG/L)
JULY 29...	.19	.02	.22	.87	1.1	.18	.09	25	7	0	9
AUG. 07...	.19	.01	.28	.78	1.1	.09	.08	16	7	0	9
SEP. 08...	.16	.01	.22	.59	.82	.06	.02	11	10	—	12

DATE	CARBON DIOXIDE (CO2) (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	TOTAL NON-FILT-RABLE RESIDUE (MG/L)
JULY 29...	3.6	21	14	6.4	1.3	9.1	1.5	11	16	64	29
AUG. 07...	9.1	29	22	8.7	1.8	3.6	1.9	6.6	17	73	35
SEP. 08...	—	17	8	5.0	1.2	13	1.4	10	26	97	31

01467008 RANCOCAS CREEK AT CENTERTON, N. J.

LOCATION.--Lat 39°59'47", long 74°52'05", Burlington County, at bridge on Interstate Route 295, 0.4 mi (0.6 km) downstream from confluence of North and South Branch Rancocas Creek.

DRAINAGE AREA.--312 mi² (808 km²).

PERIOD OF RECORD.--Chemical analyses: July to September 1975.

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	DIS-SOLVED OXYGEN (MG/L)	BIO-CHEM-ICAL OXYGEN DEMAND 5 DAY (MG/L)	FECAL COLI-FORM (EC BROTH) (MPN)	FECAL COLI-FORM (COL. PER 100 ML)	TUR-BID-ITY (JTU)	COLOR (PLAT-INUM-COBALT UNITS)	TOTAL ORGANIC NITRO-GEN (N) (MG/L)
JULY											
29...	1400	25.5	104	6.3	4.8	2.6	230	850	17	100	1.8
AUG.											
08...	1030	21.0	125	6.5	4.6	3.0	540	1250	10	40	.70
SEP.											
08...	1350	21.5	129	--	5.6	5.9	>2400	510	20	100	.80

DATE	AMMONIA NITRO-GEN (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	TOTAL ORTHO PHOS-PHORUS (P) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	CAR-BONATE (CO3) (MG/L)	BICAR-BONATE (HCO3) (MG/L)
JULY											
29...	.24	.02	.41	2.0	2.4	.43	.16	18	10	0	12
AUG.											
08...	.19	.02	.51	.89	1.4	.12	.12	15	11	0	14
SEP.											
08...	.20	.01	.46	1.0	1.5	.13	.07	37	13	--	16

DATE	CARBON DIOXIDE (CO2) (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	TOTAL NON-FILT-RABLE RESIDUE (MG/L)
JULY											
29...	9.6	26	17	7.3	2.0	9.1	2.3	11	18	88	48
AUG.											
08...	7.1	34	22	9.4	2.5	5.4	3.0	7.2	22	102	41
SEP.											
08...	--	31	18	9.0	2.1	8.5	2.4	11	21	68	59

01467016 RANCOCAS CREEK AT WILLINGBORO, N. J.

LOCATION.--Lat 40°00'36", long 74°53'16", Burlington County, at foot of J. F. Kennedy Way, right bank, 1.3 mi (2.1 km) downstream from Centerdon bridge in Willingboro.

DRAINAGE AREA.--255 mi² (660 km²), approximately.

PERIOD OF RECORD.--Chemical analyses: August 1969 to July 1975 (discontinued).
Water temperatures: August 1969 to September 1974.

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	DIS-SOLVED OXYGEN (MG/L)	BIO-CHEM-ICAL OXYGEN DEMAND 5 DAY (MG/L)	IMME-DIATE COLI-FORM (COL. PER 100 ML)	FECAL COLI-FORM (EC BROTH) (MPN)	FECAL COLI-FORM (COL. PER 100 ML)	STREP-TOCOCCI (COL-ONIES PER 100 ML)	TUR-BID-ITY (JTU)	COLOR (PLAT-INUM-COBALT UNITS)
OCT. 16...	1435	14.7	112	7.3	7.2	3.1	12200	--	2300	7900	--	--
NOV. 20...	0930	7.5	125	6.3	10.0	2.6	3100	--	20	100	--	--
MAR. 12...	0830	4.0	109	6.4	11.3	3.3	--	110	146	--	7	30
APR. 08...	0750	7.0	83	6.2	10.7	3.6	--	170	80	--	20	33
MAY 08...	0810	15.6	76	5.7	6.9	2.6	--	22	165	--	4	55
JUNE 04...	0745	21.2	100	6.3	5.5	2.7	--	490	1160	--	3	50
JULY 23...	1430	20.5	81	5.9	4.4	3.0	--	790	7000	--	15	170

DATE	TOTAL ORGANIC NITRO-GEN (N) (MG/L)	AMMONIA NITRO-GEN (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	TOTAL ORTHO PHOS-PHORUS (P) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	CAR-BONATE (CO3) (MG/L)	BICAR-BONATE (HCO3) (MG/L)
OCT. 16...	--	--	--	--	--	--	--	--	--	--	--	--
NOV. 20...	.00	.55	.00	.51	.55	1.1	.34	.10	8.9	--	--	--
MAR. 12...	.63	.06	.01	.08	.69	.78	.23	.17	20	11	0	13
APR. 08...	.34	.21	.01	.26	.55	.82	.32	.03	8.4	5	0	6
MAY 08...	.42	.18	.01	.27	.60	.88	.20	.04	15	2	0	3
JUNE 04...	.71	.39	.03	.47	1.1	1.6	.44	.19	--	10	0	12
JULY 23...	.82	.18	.03	.34	1.0	1.4	.36	.19	15	9	0	11

DATE	CARBON DIOXIDE (CO2) (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	TOTAL NON-FILT-RABLE RESIDUE (MG/L)
OCT. 16...	--	--	--	--	--	--	--	--	--	--	--
NOV. 20...	--	--	--	--	--	--	--	--	--	--	--
MAR. 12...	8.3	31	20	8.6	2.3	6.9	2.1	11	20	78	14
APR. 08...	6.1	26	21	7.6	2.0	4.0	2.0	8.2	18	67	73
MAY 08...	9.6	22	20	6.5	1.4	4.6	1.8	8.3	19	71	23
JUNE 04...	9.6	46	36	13	3.3	5.9	2.2	13	22	95	35
JULY 23...	22	24	15	6.0	2.1	4.5	2.5	5.7	15	79	2

01467030 DELAWARE RIVER AT TORRESDALE INTAKE, AT PHILADELPHIA, PA.

LOCATION.--Lat 40°01'57", long 74°59'46", Philadelphia County, water-quality recorder (40°02'05", 74°59'57") located in inactive building at Torresdale Filter Plant, 1.7 mi (2.7 km) downstream from Poquessing Creek.

DRAINAGE AREA.--7,781 mi² (20,200 km²).

PERIOD OF RECORD.--Chemical analyses: August 1949 to September 1975.
Water temperatures: October 1955 to September 1957, November 1960 to September 1975.

EXTREMES.--1974-75:
Specific conductance: Maximum, 576 micromhos Feb. 18; minimum, 106 micromhos Sept. 30.
Dissolved oxygen: Maximum, 15.0 mg/l Feb. 4, Mar. 6; minimum, 1.3 mg/l Oct. 18, 19.
Water temperatures: Maximum, 28.5°C Aug. 27, 28; minimum, 0.5°C Jan. 18, 21.
pH: Maximum, 7.9 Apr. 4; minimum, 6.0 Dec. 2, Mar. 3, May 25, June 3.
Period of record:
Specific conductance (1960-75): Maximum, 609 micromhos Jan. 18, 1970; minimum, 71 micromhos July 24, 1970.
Dissolved oxygen (1961-75): Maximum, 16.2 mg/l Dec. 20, 21, 1972; minimum, 0.0 mg/l on many days during 1962 and 1965.
Water temperatures: Maximum, 30.0°C Sept. 2, 4, 5, 1973; minimum, freezing point on many days during winter months.
pH (1968-75): Maximum, 8.1 Dec. 30, 1970; minimum, 4.9 Apr. 5, 1969.

REMARKS.--Missing continuous water-quality records are the result of malfunction of sensor or sampling mechanism.

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	TEMPERATURE (DEG C)	SPECIFIC CONDUCTANCE (MICROMHOS)	DISSOLVED NITRITE (N) (MG/L)	DISSOLVED NITRATE (N) (MG/L)	DISSOLVED ORTHO. PHOSPHORUS (P) (MG/L)	DISSOLVED ORTHO PHOSPHATE (PO4) (MG/L)	ALKALINITY AS CACO3 (MG/L)	BICARBONATE (HCO3) (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)
OCT. 17...	1220	16.0	194	.06	1.0	1.6	4.9	39	48	68	29	17
NOV. 14...	1135	12.5	235	.04	1.1	.83	2.5	43	53	77	34	19
DEC. 05...	1410	4.5	159	.02	.84	.51	1.6	32	39	55	23	14
JAN. 09...	1235	.5	173	.26	--	.68	2.1	33	40	79	46	22
FEB. 06...	1225	1.5	160	.02	.90	.05	.15	26	32	52	26	14
MAR. 13...	1300	5.0	155	.02	.84	.05	.15	31	38	52	21	14
APR. 03...	1225	8.0	138	.01	.74	.63	1.9	30	37	49	19	13
MAY 08...	1200	14.5	164	.05	.70	.04	.12	33	40	61	29	16
JUNE 05...	1245	23.0	171	.07	.83	.10	.31	33	40	64	31	19
JULY 10...	1205	25.5	154	.23	1.1	.07	.21	37	45	70	33	19
AUG. 21...	1205	25.5	209	.07	1.3	.07	.21	47	57	80	34	19
SEP. 11...	1220	21.0	194	.12	1.2	.70	2.1	46	56	81	35	21

DATE	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DISSOLVED IRON (FE) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)
OCT. 17...	6.3	9.3	2.3	10	29	.2	3.1	124	111	120	110
NOV. 14...	7.2	12	2.2	15	32	.2	3.1	141	125	60	40
DEC. 05...	4.9	7.8	1.6	9.0	23	.1	3.7	100	89	300	70
JAN. 09...	5.8	9.5	1.4	11	26	.1	5.2	89	--	70	100
FEB. 06...	4.1	10	.9	17	29	.2	4.0	104	92	100	50
MAR. 13...	4.2	6.2	1.5	10	23	.2	4.5	98	87	130	100
APR. 03...	4.0	5.1	1.3	8.2	19	.0	4.4	80	79	70	70
MAY 08...	5.2	6.6	1.6	9.6	24	.1	3.1	87	90	130	50
JUNE 05...	4.0	8.2	1.9	11	24	.1	3.6	110	96	110	40
JULY 10...	5.5	7.5	2.1	11	23	.1	4.8	111	101	170	30
AUG. 21...	8.0	9.6	2.4	10	29	.2	3.4	137	116	130	10
SEP. 11...	7.0	8.2	2.1	12	26	.2	1.2	151	113	60	0

01467030 DELAWARE RIVER AT TORRESDALE INTAKE, AT PHILADELPHIA, PA.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS AT 25°C), WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	251	226	240	257	248	253	196	181	186	291	219	242
2	240	214	226	267	243	247	227	180	190	304	230	246
3	265	209	222	272	245	251	214	184	192	289	230	244
4	230	190	211	282	248	258	220	190	196	301	199	248
5	217	178	195	307	257	270	224	194	---	309	239	253
6	217	176	187	288	260	266	---	---	---	290	240	252
7	208	176	183	298	260	267	---	---	---	307	217	267
8	220	178	188	299	261	268	---	---	---	228	216	221
9	216	183	192	283	261	267	---	---	---	222	177	212
10	244	188	196	293	261	267	184	130	---	235	213	221
11	242	192	203	290	264	268	176	107	124	288	199	220
12	228	199	207	296	251	263	205	115	130	265	200	221
13	263	205	215	282	247	253	215	124	140	267	170	200
14	274	211	221	270	240	254	209	136	150	268	154	183
15	300	218	220	254	230	243	222	144	156	252	139	166
16	246	165	219	256	219	229	205	140	175	199	140	153
17	239	168	226	250	203	222	172	135	163	264	142	155
18	248	230	235	231	174	204	269	170	184	259	145	161
19	262	230	234	225	170	197	232	175	192	200	153	168
20	270	230	235	294	171	194	224	191	201	402	172	222
21	266	230	237	271	169	185	252	191	200	202	184	205
22	264	233	242	257	167	186	262	191	205	380	193	246
23	280	240	248	227	171	182	246	197	209	390	224	265
24	282	240	253	242	175	189	246	204	215	371	237	265
25	296	245	256	239	184	196	280	209	222	402	237	273
26	294	240	254	254	189	203	269	214	227	341	229	259
27	318	244	255	233	180	198	291	214	228	289	225	256
28	280	244	252	224	174	198	261	222	229	262	220	237
29	266	244	254	228	174	186	310	223	234	306	220	240
30	295	240	254	218	170	185	270	222	232	262	204	224
31	282	200	240	---	---	---	282	225	237	259	200	215
MONTH	318	160	226	307	167	220	310	107	193	402	139	223

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	305	201	219	213	115	130	218	162	170	276	196	200
2	334	207	229	250	126	149	233	173	190	240	190	211
3	366	196	224	247	134	153	266	172	195	260	201	214
4	263	190	203	240	141	176	177	175	---	304	191	213
5	566	190	242	273	170	199	---	---	---	226	196	203
6	507	199	260	253	184	203	---	---	---	205	202	---
7	456	202	236	371	191	212	---	---	---	---	---	---
8	313	202	227	317	195	216	---	---	---	---	---	---
9	288	199	220	292	203	220	190	120	---	---	---	---
10	268	209	220	292	194	222	226	120	144	---	---	---
11	283	217	240	270	200	214	223	136	149	---	---	---
12	300	230	255	325	201	221	190	128	149	371	178	---
13	341	241	261	282	205	219	235	145	160	236	134	163
14	504	250	294	341	208	227	199	101	162	161	129	148
15	432	255	295	484	220	250	236	152	181	213	146	161
16	432	259	295	310	220	242	202	186	199	243	136	159
17	432	266	302	306	225	243	263	187	200	166	128	139
18	576	270	312	341	227	---	277	191	206	191	128	130
19	407	270	303	---	---	---	312	195	215	205	128	141
20	394	272	300	---	---	---	288	198	210	205	129	149
21	341	263	296	---	---	---	251	201	212	225	147	161
22	344	262	281	300	152	---	257	201	216	207	153	165
23	313	257	275	257	136	168	253	200	213	201	157	166
24	318	252	260	313	134	168	254	203	223	298	162	172
25	284	210	230	240	147	165	220	161	206	195	169	174
26	349	110	170	201	154	163	266	162	197	206	171	179
27	224	110	130	215	153	169	210	193	199	221	179	188
28	190	110	126	243	150	170	219	196	202	215	184	198
29	---	---	---	249	151	166	262	196	207	227	189	197
30	---	---	---	261	152	174	250	196	206	223	162	183
31	---	---	---	253	156	174	---	---	---	181	163	166
MONTH	576	110	240	484	115	193	312	120	192	371	128	---

01467030 DELAWARE RIVER AT TORRESDALE INTAKE, AT PHILADELPHIA, PA.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS AT 25°C), WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	172	126	150	257	209	221	274	225	235	265	257	261
2	210	171	181	272	219	230	267	232	248	269	254	258
3	220	179	187	272	225	234	285	239	260	260	245	251
4	242	184	194	250	223	---	276	248	253	262	244	248
5	232	188	194	---	---	---	260	251	255	255	243	248
6	205	187	193	---	---	---	265	255	258	262	243	249
7	233	194	205	---	---	---	267	255	260	253	236	245
8	230	191	201	---	---	---	270	259	264	260	234	245
9	221	171	189	---	---	---	276	263	268	257	229	241
10	191	138	162	---	---	---	288	266	272	270	227	252
11	185	124	139	---	---	---	299	271	277	279	242	257
12	185	120	136	---	---	---	296	272	278	309	243	256
13	155	121	136	---	---	---	289	270	276	263	238	244
14	172	130	142	---	---	---	294	267	273	247	230	238
15	185	136	147	---	---	---	289	264	270	249	233	240
16	235	142	165	---	---	---	272	258	264	259	240	246
17	212	141	155	---	---	---	263	254	259	264	244	251
18	205	137	148	---	---	---	263	236	247	268	250	258
19	265	139	164	---	---	---	248	236	240	284	250	265
20	174	145	153	---	---	---	252	238	243	287	213	267
21	191	148	156	219	210	---	258	241	245	291	257	267
22	192	154	162	236	218	223	261	244	248	282	229	258
23	217	158	172	236	206	219	262	245	251	238	157	221
24	218	174	183	235	202	213	259	247	251	225	135	203
25	220	181	198	230	200	213	276	251	258	211	162	191
26	218	186	193	244	224	229	267	258	262	177	138	154
27	209	189	195	241	220	220	276	258	265	165	123	139
28	217	188	199	256	208	222	280	263	267	195	110	124
29	222	199	205	243	213	219	281	263	268	177	107	121
30	243	208	216	238	215	221	280	265	268	199	106	122
31	---	---	---	269	219	229	268	262	264	---	---	---
MONTH	265	120	174	---	---	---	299	225	259	309	106	227

DISSOLVED OXYGEN (DO), IN MILLIGRAMS PER LITER, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	7.5	6.5	7.1	7.9	7.0	7.5	---	---	---	---	---	---
2	7.5	6.6	6.9	7.6	6.8	7.3	---	---	---	---	---	---
3	8.2	6.7	7.4	7.5	6.4	7.0	11.7	9.6	---	---	---	---
4	8.8	7.6	8.1	7.2	6.1	6.7	10.7	9.7	10.1	---	---	---
5	9.0	7.9	8.4	7.5	6.2	6.6	11.4	9.9	---	---	---	---
6	9.0	8.2	8.6	6.7	6.0	6.4	---	---	---	---	---	---
7	9.0	8.2	8.6	6.7	6.0	6.4	---	---	---	---	---	---
8	9.2	6.9	8.1	7.1	5.8	6.5	---	---	---	---	---	---
9	8.1	7.0	7.6	6.9	6.1	6.5	---	---	---	---	---	---
10	8.3	7.2	7.7	7.0	6.0	6.4	---	---	---	14.0	12.9	13.6
11	8.8	6.9	7.6	7.0	5.9	6.3	12.6	11.7	---	13.8	11.1	13.0
12	7.7	6.8	7.3	8.0	5.7	6.5	12.7	12.3	---	13.2	11.8	12.7
13	7.5	6.5	7.2	8.5	6.0	7.0	---	---	---	13.2	11.9	12.8
14	6.8	5.9	6.5	8.9	6.8	7.9	---	---	---	13.3	12.9	---
15	6.8	5.9	6.3	10.2	8.0	8.9	12.5	11.3	11.9	---	---	---
16	9.2	5.7	6.8	10.5	9.4	9.9	11.6	11.2	---	---	---	---
17	9.0	4.0	6.4	10.7	9.9	10.3	12.5	11.6	---	---	---	---
18	4.4	1.3	2.9	11.4	10.3	10.8	12.7	12.1	12.4	---	---	---
19	7.0	1.3	3.8	11.9	9.4	10.2	12.8	11.9	12.4	---	---	---
20	8.3	6.7	7.1	10.6	9.6	9.9	13.3	12.1	12.8	---	---	---
21	8.3	7.2	7.8	11.1	10.1	10.6	13.7	12.9	---	---	---	---
22	8.4	7.3	7.7	11.7	11.2	11.5	---	---	---	10.8	9.4	---
23	8.6	7.5	7.9	12.0	11.4	11.7	---	---	---	10.5	9.7	10.3
24	8.7	7.2	8.0	12.4	11.2	11.6	13.0	12.2	---	11.6	9.5	10.3
25	8.9	7.7	8.2	11.5	10.1	10.7	13.7	12.9	13.4	10.0	8.6	9.5
26	9.1	8.1	8.6	12.4	10.4	11.1	13.0	13.4	13.6	---	---	---
27	9.6	8.3	8.9	12.8	11.1	11.7	14.0	12.9	13.6	---	---	---
28	9.6	8.5	9.0	---	---	---	12.8	11.2	12.1	12.1	10.5	---
29	9.4	8.1	8.8	---	---	---	12.5	11.8	12.0	11.0	9.7	11.2
30	9.0	7.9	8.4	---	---	---	12.2	11.4	11.8	12.0	9.8	11.3
31	8.2	7.4	7.9	---	---	---	12.1	11.8	---	12.0	11.0	12.5
MONTH	9.6	1.3	7.5	12.6	5.7	8.7	---	---	---	---	---	---

01467030 DELAWARE RIVER AT TORRESDALE INTAKE, AT PHILADELPHIA, PA.--Continued

DISSOLVED OXYGEN (DO), IN MILLIGRAMS PER LITER, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	12.8	11.7	12.6	---	---	---	---	---	---	9.0	7.9	8.4
2	13.0	11.9	12.6	---	---	---	---	---	---	9.0	8.0	8.5
3	14.0	13.0	13.5	---	---	---	---	---	---	9.5	7.7	8.3
4	15.0	14.1	14.5	13.9	12.9	---	---	---	---	9.0	7.5	8.2
5	14.5	12.3	13.4	14.9	13.3	14.3	---	---	---	10.0	8.0	8.7
6	13.0	10.9	12.5	15.0	13.7	14.5	11.9	10.1	10.5	9.0	8.9	---
7	12.5	11.8	12.0	14.8	13.8	14.3	13.0	12.0	12.6	---	---	---
8	13.6	12.4	12.7	14.4	12.7	13.9	12.4	11.5	12.0	---	---	---
9	12.8	12.0	12.3	14.6	13.6	14.1	11.9	9.6	11.3	---	---	---
10	13.2	12.0	12.4	14.6	13.9	---	---	---	---	---	---	---
11	12.9	11.8	12.2	---	---	---	---	---	---	---	---	---
12	13.1	11.9	12.4	---	---	---	---	---	---	9.5	8.1	---
13	13.6	11.8	12.6	---	---	---	---	---	---	8.7	7.8	8.3
14	14.4	11.5	13.1	---	---	---	---	---	---	8.2	7.0	7.7
15	13.9	12.3	13.1	---	---	---	11.1	10.6	---	8.6	7.4	8.1
16	13.1	11.3	12.5	---	---	---	11.8	10.2	10.7	8.0	7.6	7.8
17	12.6	11.1	12.1	---	---	---	11.4	10.3	10.6	8.3	6.8	7.8
18	14.1	9.5	12.3	---	---	---	10.6	9.2	10.0	7.8	7.0	7.5
19	14.1	11.8	13.0	---	---	---	9.9	8.3	9.3	8.0	6.9	7.5
20	13.4	11.0	12.4	---	---	---	10.5	8.0	9.3	8.0	6.7	7.5
21	12.6	11.4	12.0	---	---	---	10.1	5.7	8.9	7.8	6.4	7.4
22	12.0	11.2	11.6	---	---	---	10.1	8.3	9.0	7.7	6.4	7.1
23	11.4	9.2	10.7	---	---	---	9.8	8.6	9.3	6.9	5.9	6.4
24	10.4	9.3	---	---	---	---	9.1	7.3	8.8	6.8	5.1	6.2
25	---	---	---	---	---	---	9.0	7.1	8.4	6.5	4.1	5.4
26	---	---	---	---	---	---	8.8	7.9	8.4	6.8	5.8	6.3
27	---	---	---	---	---	---	8.5	8.0	8.3	6.0	3.8	5.1
28	---	---	---	---	---	---	8.0	7.4	7.7	5.7	4.8	5.3
29	---	---	---	---	---	---	8.6	7.1	7.9	5.7	4.5	5.1
30	---	---	---	---	---	---	8.8	6.6	8.2	6.5	3.6	5.4
31	---	---	---	---	---	---	---	---	---	6.2	5.0	5.6
MONTH	15.0	9.2	12.5	---	---	---	---	---	---	10.0	3.6	---

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	6.7	4.7	5.6	6.6	4.4	5.8	6.4	3.9	5.1	6.5	5.1	5.6
2	5.8	4.5	5.3	7.0	4.6	5.3	5.9	3.8	4.9	6.5	5.3	5.8
3	5.7	4.2	4.9	6.4	4.6	5.3	6.1	3.6	4.8	6.5	5.4	6.0
4	5.5	3.8	4.7	5.6	4.6	---	5.3	3.8	4.6	6.3	5.0	5.9
5	5.5	3.7	4.6	---	---	---	4.9	3.5	4.3	6.7	5.2	6.0
6	6.0	3.1	4.6	---	---	---	4.6	3.2	4.1	6.7	5.0	6.0
7	6.0	4.3	5.0	---	---	---	4.4	2.7	3.9	6.6	5.3	5.9
8	6.5	5.0	6.0	---	---	---	4.3	2.7	3.8	6.4	5.0	5.6
9	6.7	5.5	6.2	---	---	---	4.3	2.7	3.6	6.3	4.7	5.4
10	7.2	5.2	6.4	---	---	---	4.4	2.8	3.4	7.5	4.6	6.1
11	7.8	6.0	6.9	---	---	---	4.5	2.7	3.5	7.3	5.3	6.4
12	8.4	6.8	7.6	---	---	---	4.9	2.8	3.7	7.2	6.2	6.7
13	8.5	7.2	7.7	---	---	---	5.1	2.8	3.8	7.6	6.3	6.7
14	7.8	7.2	7.5	---	---	---	5.6	3.6	4.4	7.8	6.5	7.0
15	7.5	6.9	7.3	---	---	---	6.2	4.0	4.8	8.6	6.8	7.5
16	7.7	6.8	7.2	---	---	---	5.7	4.6	5.1	8.5	7.1	7.9
17	7.6	6.7	7.2	---	---	---	5.3	3.9	4.9	8.6	7.4	8.0
18	7.6	6.5	7.1	---	---	---	5.5	4.2	4.9	8.5	7.4	8.1
19	7.1	5.3	6.6	---	---	---	5.4	4.2	4.9	8.1	6.9	7.8
20	6.2	5.2	5.8	---	---	---	5.1	4.1	4.7	7.9	7.1	7.5
21	6.5	4.7	5.7	6.3	3.9	---	5.2	3.8	4.7	7.5	7.0	7.2
22	6.9	4.6	6.1	5.7	4.9	5.2	5.2	3.9	4.6	7.4	6.5	6.8
23	6.9	5.8	6.3	5.2	3.9	4.7	5.2	4.0	4.5	7.1	5.8	6.4
24	6.7	5.3	6.1	5.1	3.8	4.4	5.2	3.5	4.5	7.8	6.1	6.7
25	5.8	4.4	5.3	5.1	3.6	4.5	5.5	3.5	4.4	7.9	6.6	7.0
26	5.9	3.7	5.0	5.6	4.4	5.0	4.7	3.8	4.2	7.6	7.3	7.5
27	5.1	3.9	4.6	5.6	4.8	5.2	5.1	3.5	4.3	7.9	7.3	7.7
28	4.8	3.7	4.2	6.0	4.8	5.1	5.5	4.0	4.5	7.8	7.3	7.6
29	4.7	3.7	4.2	5.6	4.7	5.1	6.0	4.1	4.8	7.8	7.5	7.7
30	5.2	4.0	4.4	5.6	4.6	5.1	5.8	4.8	5.1	7.8	7.5	7.7
31	---	---	---	7.2	4.6	5.3	6.2	4.5	5.3	---	---	---
MONTH	8.5	3.1	5.9	---	---	---	6.4	2.7	4.5	8.6	4.6	6.8

01467030 DELAWARE RIVER AT TORRESDALE INTAKE, AT PHILADELPHIA, PA.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	18.5	17.0	18.5	14.5	13.0	13.5	5.5	5.0	5.0	5.0	4.0	4.0
2	18.0	16.0	17.5	14.5	13.5	14.0	6.0	5.0	5.5	4.5	4.0	4.0
3	16.5	15.0	16.0	14.5	14.0	14.0	6.0	5.0	5.5	4.0	3.5	4.0
4	15.5	14.5	15.0	15.0	14.0	14.5	5.0	4.5	5.0	4.5	3.5	4.0
5	15.5	14.0	15.0	16.0	14.5	14.5	4.5	4.0	---	4.5	3.5	4.0
6	16.0	14.5	14.5	15.5	14.5	14.5	---	---	---	4.0	3.0	4.0
7	15.0	14.5	14.5	15.0	14.5	14.5	---	---	---	4.5	3.5	4.0
8	15.0	14.0	14.0	14.5	13.5	14.0	---	---	---	4.0	3.5	4.0
9	14.5	13.5	14.0	14.5	13.5	14.0	---	---	---	7.0	4.0	5.0
10	14.5	14.0	14.0	14.5	13.5	14.0	6.5	5.5	---	5.0	4.5	4.5
11	15.0	14.0	14.5	14.5	13.0	14.0	6.0	4.0	5.0	8.0	4.5	5.5
12	15.0	14.5	14.5	14.5	14.0	14.0	4.5	4.0	4.0	6.5	5.5	5.5
13	15.0	14.5	15.0	14.5	13.0	14.0	4.5	4.0	4.0	6.0	5.5	5.5
14	15.0	14.5	15.0	14.0	12.0	13.0	4.5	4.0	4.0	5.0	3.5	5.0
15	15.5	15.0	15.0	13.0	10.5	12.0	4.5	4.0	4.0	4.0	2.0	3.5
16	15.0	12.0	14.5	11.0	10.0	11.0	7.0	4.0	5.0	3.0	2.0	2.5
17	15.5	12.0	14.5	10.5	9.5	10.0	6.5	5.0	5.5	1.5	1.0	1.5
18	15.0	14.5	14.5	10.0	9.0	9.5	5.0	5.0	5.0	1.5	0.5	1.0
19	15.0	13.5	14.0	10.5	9.0	9.0	5.0	4.5	4.5	4.0	1.0	1.5
20	14.0	12.0	13.5	9.5	8.5	9.0	5.0	4.0	4.5	4.5	1.0	1.5
21	13.0	11.0	12.0	9.0	8.0	8.5	4.5	4.0	4.0	1.0	0.5	1.0
22	13.0	10.5	12.0	8.0	7.0	7.5	4.0	3.5	4.0	2.0	1.0	1.5
23	13.0	11.0	12.0	7.0	6.0	7.0	4.5	3.5	4.0	2.0	1.5	2.0
24	12.0	11.0	12.0	8.0	6.5	7.0	4.5	4.0	4.0	2.0	1.5	2.0
25	12.0	11.0	11.5	8.0	7.0	7.5	4.5	4.0	4.0	6.0	2.0	2.5
26	11.5	11.0	11.5	8.0	5.5	6.5	4.0	4.0	4.0	4.0	3.0	3.5
27	11.5	10.5	11.0	6.5	5.5	6.0	4.0	4.0	4.0	4.0	3.5	3.5
28	11.5	10.5	11.0	6.5	5.5	6.0	4.5	4.0	4.0	4.0	3.5	3.5
29	12.0	11.0	11.5	6.0	5.0	5.5	4.5	4.0	4.0	4.5	3.5	4.0
30	13.0	11.5	12.0	6.0	4.5	5.5	5.0	4.0	4.5	4.5	3.5	4.0
31	13.5	12.0	12.5	---	---	---	4.0	4.0	4.0	4.5	4.0	4.0
MONTH	18.5	10.5	14.0	16.0	4.5	11.0	7.0	3.5	4.5	8.0	0.5	3.5

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	4.0	3.5	4.0	5.0	3.5	4.0	9.0	5.5	6.5	15.0	14.5	14.5
2	4.5	3.5	4.0	5.0	3.5	4.0	10.0	6.5	7.5	15.0	14.0	14.5
3	4.0	3.0	3.5	4.5	3.0	3.5	9.0	8.0	8.0	16.5	14.0	15.0
4	3.0	2.0	2.5	4.0	2.0	3.0	10.0	6.5	8.0	15.5	14.0	15.0
5	3.5	1.5	2.5	4.0	2.0	3.0	9.5	7.0	8.5	15.0	13.5	14.5
6	4.5	3.0	3.5	4.0	2.0	3.0	9.5	9.0	9.5	14.5	14.5	---
7	4.0	3.0	3.5	5.0	3.0	3.5	9.5	8.5	9.0	---	---	---
8	3.5	2.0	3.0	4.5	3.5	4.0	10.0	9.5	---	---	---	---
9	3.5	3.0	3.5	4.0	3.0	3.5	6.5	6.0	---	---	---	---
10	3.5	2.0	3.0	5.0	3.0	4.0	8.0	5.5	6.5	---	---	---
11	3.5	3.0	3.0	5.5	4.5	5.0	8.5	6.5	7.5	---	---	---
12	3.5	2.0	3.0	7.0	5.0	5.5	9.5	7.0	8.0	20.5	19.5	---
13	3.5	2.0	3.0	7.0	5.5	6.0	9.5	8.0	8.5	19.5	18.0	19.0
14	4.0	1.5	2.5	6.5	5.5	5.5	11.0	8.5	9.0	19.5	18.0	18.5
15	3.0	1.5	2.5	6.5	5.0	5.5	9.5	8.5	9.5	20.5	18.0	19.0
16	4.0	2.0	2.5	7.0	5.5	6.0	11.0	9.0	9.5	19.5	18.5	19.0
17	4.0	3.0	3.0	8.0	6.0	6.0	13.0	9.5	10.5	20.0	18.0	19.0
18	5.0	1.5	3.0	6.5	5.5	---	12.5	10.5	11.0	19.5	18.5	19.0
19	5.0	1.5	2.5	---	---	---	14.0	11.0	12.0	20.0	18.5	19.0
20	5.0	3.0	3.5	---	---	---	13.0	11.0	12.0	20.5	19.0	20.0
21	5.0	3.5	4.0	---	---	---	13.0	11.0	12.0	20.5	20.0	20.0
22	5.0	4.0	4.5	9.5	7.0	---	13.5	11.5	12.5	21.5	20.0	20.5
23	6.5	4.5	5.0	8.5	6.0	6.5	14.0	13.0	13.5	22.0	21.0	21.5
24	8.5	5.5	6.0	9.0	6.0	7.0	16.0	13.5	14.0	23.5	21.5	23.0
25	8.0	6.0	6.0	8.5	6.5	7.0	15.5	14.0	14.5	23.0	21.5	22.5
26	6.0	3.5	5.0	8.0	6.5	7.0	15.5	14.0	14.5	23.0	21.5	22.0
27	5.5	3.5	4.0	7.0	6.0	6.5	15.5	14.0	14.5	23.5	22.0	22.5
28	5.0	3.5	4.0	7.0	5.5	6.0	15.5	14.5	15.0	24.0	23.0	23.5
29	---	---	---	6.5	5.5	6.0	15.0	14.5	14.5	24.5	23.0	23.5
30	---	---	---	8.0	5.5	6.0	16.5	14.0	15.0	23.5	22.0	23.5
31	---	---	---	7.0	5.5	6.0	---	---	---	24.0	[illegible]	23.5
MONTH	8.5	1.5	3.5	9.5	2.0	5.0	16.5	5.5	11.0	24.5	13.5	---

01467030 DELAWARE RIVER AT TORRESDALE INTAKE, AT PHILADELPHIA, PA.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	JUNE MAX	JUNE MIN	JUNE MEAN	JULY MAX	JULY MIN	JULY MEAN	AUGUST MAX	AUGUST MIN	AUGUST MEAN	SEPTEMBER MAX	SEPTEMBER MIN	SEPTEMBER MEAN
1	24.0	22.0	23.0	26.0	24.0	25.0	25.5	24.0	25.0	25.5	24.5	25.0
2	24.0	22.0	23.5	26.0	24.5	25.5	26.0	24.5	25.5	25.5	24.0	25.0
3	24.0	22.0	23.5	25.5	24.5	25.0	26.5	25.5	26.0	25.5	24.0	25.0
4	24.0	23.0	23.5	25.0	24.0	---	27.0	26.0	26.0	25.0	22.0	24.5
5	23.5	22.0	23.5	---	---	---	28.0	26.0	26.5	25.0	24.5	24.5
6	23.5	20.5	22.5	---	---	---	27.0	26.0	27.0	24.5	24.0	24.5
7	23.0	21.0	22.5	---	---	---	26.5	25.5	26.0	24.5	24.0	24.0
8	22.0	20.0	21.5	---	---	---	26.0	25.5	25.5	24.0	23.0	24.0
9	21.0	19.0	20.0	---	---	---	26.5	25.5	25.5	23.5	23.0	23.5
10	20.5	19.0	19.5	---	---	---	26.0	25.5	25.5	24.0	22.0	23.0
11	20.5	19.5	19.5	---	---	---	26.0	25.0	25.5	23.0	22.0	23.0
12	19.5	18.5	19.5	---	---	---	26.0	25.0	25.5	23.0	22.0	22.5
13	21.0	18.5	20.0	---	---	---	26.0	25.0	25.5	22.0	20.5	21.5
14	21.5	20.0	20.5	---	---	---	26.0	24.5	25.5	21.5	20.5	21.5
15	23.0	20.0	21.0	---	---	---	26.0	25.0	25.5	21.0	20.0	20.5
16	23.0	21.0	21.5	25.5	24.0	---	25.5	24.5	25.0	20.5	19.5	20.5
17	23.5	21.5	22.0	25.5	23.5	24.5	25.0	24.5	25.0	21.0	20.0	20.5
18	24.0	21.5	23.0	25.5	24.0	25.0	25.0	24.5	25.0	20.5	20.0	20.5
19	24.5	23.0	23.5	25.5	24.5	25.0	25.5	24.5	25.0	20.5	20.0	20.5
20	24.0	23.5	24.0	26.0	25.0	25.5	25.5	24.5	25.0	21.0	20.5	20.5
21	25.0	23.5	24.0	26.0	24.5	25.5	25.5	25.0	25.0	21.0	20.0	20.5
22	25.0	24.0	24.5	26.5	25.5	26.0	25.5	25.0	25.0	20.5	20.0	20.5
23	25.5	24.5	25.0	26.5	25.5	26.0	25.5	24.5	25.0	20.0	18.0	19.5
24	26.5	24.5	25.5	26.5	26.0	26.0	25.0	24.5	24.5	19.5	17.0	18.5
25	26.5	25.0	25.5	26.5	25.5	26.0	26.5	24.5	25.5	18.5	16.5	18.0
26	25.5	25.0	25.5	27.0	25.5	26.0	28.0	26.5	27.0	19.0	16.5	17.0
27	25.5	25.0	25.0	26.5	25.0	26.0	28.5	26.5	27.0	18.5	16.5	17.0
28	26.0	24.5	25.5	25.5	23.5	25.0	28.5	26.5	27.0	18.5	16.5	17.0
29	26.5	25.0	25.5	24.5	23.5	24.0	28.0	26.5	27.0	18.0	16.0	16.5
30	26.0	25.0	25.5	24.5	23.0	24.0	27.0	26.0	26.5	18.0	16.5	17.0
31	---	---	---	25.5	23.5	24.5	26.5	25.0	25.5	---	---	---
MONTH	26.5	18.5	23.0	---	---	---	28.5	24.0	25.5	25.5	16.0	21.0

pH (UNITS), WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	OCTOBER MAX	OCTOBER MIN	OCTOBER MEAN	NOVEMBER MAX	NOVEMBER MIN	NOVEMBER MEAN	DECEMBER MAX	DECEMBER MIN	DECEMBER MEAN	JANUARY MAX	JANUARY MIN	JANUARY MEAN
1	7.0	6.9	7.0	6.6	6.4	6.5	7.1	6.8	6.9	6.6	6.5	6.5
2	7.0	6.8	6.9	6.5	6.4	6.5	7.2	6.6	6.9	6.8	6.4	6.6
3	7.0	6.9	7.0	6.5	6.4	6.5	7.0	6.5	6.8	6.7	6.6	6.6
4	7.0	6.9	6.9	7.1	6.5	6.8	7.0	6.9	7.0	6.8	6.6	6.6
5	7.0	6.9	6.9	7.5	6.8	7.3	7.0	6.9	---	6.9	6.6	6.7
6	6.9	6.8	6.9	7.5	7.1	7.4	---	---	---	6.9	6.6	6.7
7	6.9	6.8	6.8	7.5	7.2	7.3	---	---	---	6.8	6.5	6.6
8	6.9	6.2	6.5	7.6	7.3	7.4	---	---	---	6.6	6.5	6.6
9	6.3	6.2	6.2	7.8	7.2	---	---	---	---	6.6	6.4	6.6
10	6.4	6.2	6.3	---	---	---	---	---	---	6.6	6.5	6.6
11	6.4	6.2	6.3	---	---	---	6.3	6.1	---	6.7	6.6	6.6
12	6.4	6.2	6.3	7.0	6.5	---	6.6	6.0	6.3	6.6	6.6	6.6
13	6.4	6.3	6.3	7.2	6.5	6.6	6.6	6.4	6.4	6.9	6.5	6.7
14	6.4	6.3	6.3	7.3	6.7	6.9	6.6	6.4	6.5	6.9	6.5	6.7
15	6.5	6.3	6.4	7.0	6.7	6.9	6.7	6.5	6.5	6.7	6.5	6.6
16	6.9	6.3	6.6	7.0	6.9	6.9	6.8	6.5	6.6	6.7	6.5	6.6
17	6.9	6.7	6.8	7.0	6.9	6.9	6.8	6.4	6.6	6.7	6.5	6.6
18	6.9	6.8	6.8	7.2	6.8	6.9	7.0	6.8	6.8	6.9	6.6	6.8
19	6.9	6.8	6.8	7.0	6.3	6.6	6.9	6.6	6.8	6.9	6.6	6.8
20	6.9	6.7	6.8	6.5	6.3	6.4	6.9	6.6	6.7	6.9	6.4	6.7
21	6.9	6.7	6.8	6.5	6.3	6.3	6.7	6.6	6.7	6.9	6.5	6.6
22	6.8	6.6	6.7	6.4	6.3	6.3	6.9	6.6	6.8	7.2	6.6	7.0
23	6.7	6.6	6.6	6.4	6.2	6.3	6.7	6.6	6.7	7.2	7.0	7.1
24	6.7	6.6	6.7	6.4	6.3	6.3	6.9	6.5	6.7	7.3	7.1	7.2
25	6.8	6.6	6.7	6.9	6.3	6.6	6.7	6.5	6.6	7.3	7.2	7.2
26	6.8	6.7	6.7	7.1	6.8	7.0	6.6	6.5	6.6	7.1	6.9	7.0
27	6.8	6.7	6.7	7.0	6.9	7.0	6.7	6.5	6.6	6.9	6.7	6.8
28	6.8	6.7	6.7	7.0	6.9	6.9	6.7	6.6	6.6	6.6	6.2	6.6
29	6.8	6.6	6.7	7.0	6.8	6.9	6.7	6.6	6.6	6.5	6.2	6.3
30	6.7	6.5	6.7	6.9	6.8	6.8	6.7	6.5	6.6	6.5	6.4	6.5
31	6.6	6.4	6.5	---	---	---	6.7	6.5	6.6	6.5	6.3	6.4
MONTH	7.0	6.2	6.7	7.8	6.2	6.8	7.2	6.0	---	7.3	6.2	6.7

01467030 DELAWARE RIVER AT TORRESDALE INTAKE, AT PHILADELPHIA, PA.--Continued

pH (UNITS), WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	6.4	6.2	6.3	6.5	6.1	6.2	7.2	6.8	7.0	6.7	6.5	6.6
2	6.4	6.2	6.3	6.4	6.2	6.2	6.9	6.7	6.9	6.7	6.5	6.6
3	6.4	6.3	6.4	6.5	6.0	6.3	7.1	6.9	7.0	6.8	6.5	6.6
4	6.4	6.2	6.4	6.9	6.4	6.6	7.9	6.9	---	6.7	6.4	6.6
5	7.0	6.3	6.6	6.9	6.7	6.8	---	---	---	6.7	6.5	6.6
6	7.0	6.8	6.9	6.8	6.7	6.7	---	---	---	6.6	6.6	---
7	7.0	6.8	6.9	7.0	6.7	6.7	---	---	---	---	---	---
8	6.9	6.8	6.8	6.9	6.6	6.7	---	---	---	---	---	---
9	6.8	6.7	6.8	7.0	6.7	6.9	7.1	6.8	---	---	---	---
10	6.8	6.7	6.8	7.2	6.8	7.0	7.2	6.8	7.0	---	---	---
11	7.3	6.7	7.0	7.1	6.8	7.0	7.3	7.0	7.0	---	---	---
12	7.2	7.1	7.1	6.9	6.8	6.9	7.1	7.0	7.0	7.0	6.8	---
13	7.2	7.0	7.1	7.1	6.8	6.8	7.2	7.0	7.1	6.9	6.4	6.6
14	7.2	7.0	7.1	7.0	6.8	6.9	7.1	7.0	7.1	6.7	6.5	6.6
15	7.2	7.0	7.2	7.0	6.8	6.9	7.2	6.7	6.9	6.7	6.4	6.5
16	7.2	7.0	7.1	6.9	6.8	6.8	6.7	6.6	6.7	6.6	6.5	6.5
17	7.2	7.0	7.1	7.2	6.8	7.0	6.8	6.6	6.7	6.6	6.3	6.4
18	7.2	6.7	7.0	7.3	7.1	---	6.8	6.6	6.7	6.5	6.2	6.3
19	7.0	6.6	6.7	---	---	---	6.9	6.6	6.7	6.6	6.1	6.4
20	7.1	6.6	6.7	---	---	---	6.8	6.7	6.7	6.6	6.4	6.5
21	7.1	6.5	6.9	---	---	---	6.8	6.7	6.8	6.4	6.2	6.3
22	7.0	6.6	6.9	7.4	7.0	---	7.0	6.7	6.7	6.5	6.2	6.3
23	7.1	6.9	7.0	7.2	7.0	7.1	7.0	6.7	6.8	6.5	6.3	6.3
24	7.2	6.5	6.9	7.2	6.9	7.0	6.8	6.5	6.7	6.5	6.3	6.4
25	6.7	6.5	6.6	7.1	7.0	7.0	6.8	6.3	6.7	6.5	6.0	6.4
26	6.6	6.2	6.4	7.2	7.0	7.1	6.8	6.3	6.7	6.5	6.3	6.4
27	6.6	6.1	6.3	7.2	7.0	7.1	6.7	6.6	6.7	6.5	6.3	6.4
28	6.5	6.3	6.4	7.3	7.0	7.2	6.6	6.6	6.6	6.7	6.3	6.5
29	---	---	---	7.3	7.1	7.2	6.6	6.4	6.5	6.7	6.5	6.6
30	---	---	---	7.3	7.0	7.1	6.6	6.4	6.5	6.7	6.4	6.5
31	---	---	---	7.3	7.1	7.2	---	---	---	6.5	6.4	6.4
MONTH	7.3	6.1	6.8	7.4	6.0	6.9	7.9	6.3	6.8	7.0	6.0	---

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	6.5	6.2	6.4	6.8	6.5	6.7	6.9	6.7	6.7	7.1	6.9	6.9
2	6.5	6.4	6.5	6.8	6.6	6.7	6.8	6.7	6.7	7.0	6.8	---
3	6.6	6.0	6.4	6.8	6.6	6.7	6.9	6.7	6.7	---	---	---
4	6.5	6.3	6.4	6.7	6.6	---	6.7	6.6	6.7	---	---	---
5	6.5	6.4	6.4	---	---	---	6.8	6.6	6.7	---	---	---
6	6.5	6.3	6.4	---	---	---	6.8	6.7	6.8	---	---	---
7	6.7	6.4	6.5	---	---	---	6.9	6.7	6.8	---	---	---
8	6.7	6.6	6.6	---	---	---	6.9	6.7	6.7	7.5	7.0	---
9	6.7	6.6	6.6	---	---	---	6.8	6.7	6.8	7.4	7.1	7.2
10	6.6	6.4	6.5	---	---	---	6.8	6.7	6.8	7.1	6.7	6.9
11	6.5	6.3	6.4	---	---	---	6.9	6.8	6.8	6.9	6.7	6.7
12	6.5	6.3	6.4	---	---	---	6.9	6.7	6.7	6.9	6.7	6.8
13	6.5	6.4	6.4	---	---	---	6.7	6.6	6.7	6.9	6.7	6.7
14	6.5	6.5	6.5	---	---	---	6.8	6.6	6.7	6.9	6.3	6.7
15	6.6	6.4	6.5	---	---	---	6.8	6.6	6.7	7.3	6.7	7.0
16	6.7	6.4	6.5	---	---	---	6.8	6.7	6.7	7.2	7.0	7.1
17	6.5	6.3	6.4	---	---	---	6.8	6.7	6.8	7.2	7.0	7.1
18	6.5	6.3	6.4	---	---	---	6.8	6.7	6.8	7.2	7.0	7.1
19	6.5	6.3	6.3	---	---	---	6.8	6.7	6.7	7.1	6.9	7.1
20	6.3	6.2	6.3	---	---	---	6.8	6.3	6.7	7.1	6.9	7.0
21	6.4	6.2	6.3	6.8	6.4	---	6.8	6.7	6.7	7.0	6.9	7.0
22	6.5	6.2	6.4	6.8	6.5	6.5	6.8	6.7	6.7	7.0	6.6	6.8
23	6.8	6.3	6.6	6.5	6.4	6.4	6.8	6.6	6.7	6.6	6.5	6.6
24	6.8	6.6	6.7	6.5	6.4	6.4	6.8	6.7	6.7	6.5	6.4	6.5
25	6.7	6.5	6.6	6.5	6.4	6.5	7.4	6.7	7.0	6.6	6.5	6.5
26	6.7	6.5	6.6	6.6	6.5	6.5	7.1	6.8	7.0	6.5	6.4	6.5
27	6.7	6.5	6.6	6.6	6.5	6.6	7.0	6.8	6.9	6.4	6.3	6.4
28	6.7	6.6	6.6	6.9	6.6	6.7	7.0	6.8	6.9	6.3	6.2	6.3
29	6.7	6.6	6.6	6.8	6.7	6.7	7.1	6.8	6.9	6.3	6.2	6.2
30	6.8	6.6	6.7	6.8	6.7	6.7	7.0	6.8	6.9	6.4	6.2	6.2
31	---	---	---	6.9	6.7	6.7	7.0	6.9	6.9	---	---	---
MONTH	6.8	6.0	6.5	---	---	---	7.4	6.3	6.8	7.5	6.2	---

01467150 COOPER RIVER AT HADDONFIELD, N. J.

LOCATION.--Lat 39°54'11", long 75°01'19", Camden County, 200 ft (61 m) downstream from gaging station, at bridge on State Highway 41 (Kings Highway) in Haddonfield, 0.6 mi (1.0 km) upstream from North Branch Cooper River, and 7.7 mi (12.4 km) upstream from mouth.

DRAINAGE AREA.--17.4 mi² (45.1 km²).

PERIOD OF RECORD.--Chemical analyses: Water years 1968-72 (partial-record station), October 1972 to September 1975.
Water temperatures: March to September 1969.
Sediment records: Water years 1968-70.

REMARKS.--Miscellaneous storm sediment samples collected during water years 1971-73.

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	TEMPERATURE (DEG C)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	DISSOLVED OXYGEN (MG/L)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L)	IMMEDIATE COLIFORM (COL. PER 100 ML)	FECAL COLIFORM (EC BROTH) (MPN)	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)	TURBIDITY (JTU)
OCT.												
16...	1400	279	13.0	152	7.0	5.2	>9.4	98500	--	--	17800	--
NOV.												
20...	1025	19	9.6	257	7.0	6.4	7.0	160000	--	1150	--	--
MAR.												
12...	0945	22	6.3	209	6.7	8.6	13	--	1600	3400	--	20
APR.												
08...	1030	27	8.5	251	7.0	7.9	12	--	500	<100	--	20
MAY												
08...	1000	33	17.0	251	6.7	4.9	20	--	140	1100	--	15
JUNE												
04...	0950	31	21.0	200	6.9	4.0	12	--	500	5000	--	20
JULY												
23...	1300	31	26.4	222	6.8	4.4	6.9	--	1400	2200	--	15
AUG.												
20...	1525	22	26.0	309	--	9.2	--	--	11000	3300	--	10
SEP.												
10...	1230	19	18.0	329	6.2	4.5	8.4	--	470	700	--	15

DATE	COLOR (PLATINUM-COBALT UNITS)	TOTAL ORGANIC NITROGEN (N) (MG/L)	AMMONIA NITROGEN (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL ORTHO PHOSPHORUS (P) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)	ALKALINITY AS CACO3 (MG/L)	CARBONATE (CO3) (MG/L)
OCT.												
16...	--	--	--	--	--	--	--	--	--	--	--	--
NOV.												
20...	--	.80	10	.09	.26	9.8	10	.70	.50	12	--	--
MAR.												
12...	20	8.2	.03	.00	.05	8.2	8.3	1.0	.16	13	7	0
APR.												
08...	20	2.8	4.4	.05	.30	7.2	7.6	1.3	.26	7.6	51	0
MAY												
08...	41	4.7	4.6	.09	.30	9.3	9.8	.99	.11	11	45	0
JUNE												
04...	50	1.0	6.7	.12	.26	7.7	8.1	1.1	.31	9.0	57	0
JULY												
23...	43	.70	4.0	.16	.35	4.7	5.2	1.3	.49	14	48	0
AUG.												
20...	7	5.7	5.3	.26	.67	11	12	.55	.20	18	52	--
SEP.												
10...	3	6.7	5.3	.23	.87	12	13	.45	.20	16	--	0

DATE	BICARBONATE (HCO3) (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	TOTAL NONFILTRABLE RESIDUE (MG/L)
OCT.												
16...	--	--	--	--	--	--	--	--	--	--	--	--
NOV.												
20...	--	--	--	--	--	--	--	--	--	--	--	--
MAR.												
12...	8	2.6	56	49	15	4.5	24	7.0	36	37	173	25
APR.												
08...	62	9.9	58	8	16	4.5	19	6.6	27	34	153	24
MAY												
08...	55	18	50	5	14	3.7	15	6.0	21	28	125	29
JUNE												
04...	70	14	57	0	16	4.2	19	6.7	28	25	153	28
JULY												
23...	59	15	55	6	15	4.2	14	6.1	28	23	132	3
AUG.												
20...	63	--	61	10	18	4.0	22	7.7	31	24	131	24
SEP.												
10...	--	--	60	--	18	3.6	22	8.1	29	28	150	24

01467200 DELAWARE RIVER AT BENJAMIN FRANKLIN BRIDGE, AT PHILADELPHIA, PA.

LOCATION.--Lat 39°57'11", long 75°08'05", Philadelphia County, at center of river on a line 200 ft (61 m) upstream of bridge from the north side of pier 12 North through channel station +14.3 to pierhead line on New Jersey side of river. Water-quality recorder (39°57'10", 75°08'18") located at river end of pier 11 North about 100 ft (30 m) downstream from bridge.

DRAINAGE AREA.--7,993 mi^3 (20,700 km^2).

PERIOD OF RECORD.--Chemical analyses: August 1949 to September 1975.
Water temperatures: November 1960 to September 1975.

EXTREMES.--1974-75:
Specific conductance: Maximum, 370 micromhos July 12; minimum, 133 micromhos Feb. 27, 28.
Dissolved oxygen: Maximum, 12.2 mg/l Jan. 10; minimum, 0 mg/l Nov. 8, 12.
Water temperatures: Maximum, 27.0°C Aug. 4, 5, 6; minimum, 1.5 Jan. 16, 17.
pH: Maximum, 8.1 Mar. 19; minimum, 5.7 June 28, 29.
Period of record:
Specific conductance (1963-75): Maximum, 1,450 micromhos Nov. 20, 1964; minimum, 80 micromhos Aug. 30, 1971.
Dissolved oxygen: Maximum, 14.1 mg/l Dec. 14, 1962; minimum, 0.0 mg/l on several days during summer months.
Water temperatures: Maximum, 31.0°C July 13-15, 1966; minimum, freezing point on many days during winter months.
pH (1968-75): Maximum, 8.1 Mar. 19, 1975; minimum, 5.6 Feb. 27, 1970.

REMARKS.--Samples collected approximately 3 ft (1 m) from bottom. Missing continuous water-quality records are the result of malfunction of sensor or sampling mechanism.

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	DIS-SOLVED NITRITE (N) (MG/L)	DIS-SOLVED NITRATE (N) (MG/L)	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)	DIS-SOLVED ORTHO PHOS-PHATE (PO4) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	BICAR-BONATE (HCO3) (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)
OCT.												
17...	1130	15.0	199	.05	.92	2.7	8.3	35	43	59	24	15
NOV.												
14...	1030	13.0	265	.07	1.1	.64	2.0	47	57	76	30	19
DEC.												
05...	1255	5.0	162	.03	.79	.52	1.6	29	35	54	25	14
JAN.												
09...	1135	5.0	210	--	--	--	--	29	35	61	33	16
FEB.												
06...	1116	2.0	189	.02	1.2	.06	.18	29	35	59	30	16
MAR.												
13...	1205	5.0	164	.02	.94	.12	.37	32	39	51	19	13
APR.												
03...	1110	8.0	136	.03	.82	1.3	4.0	24	29	46	22	12
MAY												
08...	1055	15.0	180	.04	.96	.07	.21	39	47	68	29	18
JUNE												
05...	1150	23.0	179	.13	.79	.13	.40	33	40	55	22	16
JULY												
10...	1100	26.0	185	.22	1.2	.11	.34	38	46	84	46	23
AUG.												
21...	1100	25.5	220	.11	1.3	.12	.37	50	61	83	33	20
SEP.												
11...	1130	22.0	259	.12	1.4	.69	2.1	52	63	97	45	24

DATE	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)
OCT.											
17...	5.3	11	2.5	13	30	.2	4.6	117	116	100	140
NOV.											
14...	7.0	15	2.6	17	38	.2	3.6	150	138	40	60
DEC.											
05...	4.6	8.5	1.7	10	23	.2	3.9	106	89	180	70
JAN.											
09...	5.2	11	1.8	14	34	.1	5.5	124	105	100	160
FEB.											
06...	4.6	12	1.3	18	28	.1	5.2	135	108	200	100
MAR.											
13...	4.5	7.7	1.7	11	25	.1	4.6	102	92	70	110
APR.											
03...	3.8	6.9	1.4	10	20	.0	4.4	82	81	60	90
MAY											
08...	5.5	8.2	1.7	11	26	.0	2.6	108	101	120	60
JUNE											
05...	3.6	9.5	2.1	13	24	.1	3.0	109	96	60	90
JULY											
10...	6.4	9.4	2.9	14	27	.1	4.4	104	117	50	50
AUG.											
21...	8.0	11	2.5	12	31	.1	2.5	147	124	50	10
SEP.											
11...	8.9	14	2.8	18	38	.2	.3	175	146	10	20

01467200 DELAWARE RIVER AT BENJAMIN FRANKLIN BRIDGE, AT PHILADELPHIA, PA.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS AT 25°C), WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	244	231	240	285	259	272	257	221	242	228	217	223
2	241	220	236	285	250	274	265	232	---	228	214	222
3	244	216	230	280	266	---	257	236	---	231	218	227
4	244	216	230	282	207	---	274	237	251	233	226	230
5	248	225	232	279	262	272	267	245	256	248	225	236
6	241	229	235	288	234	269	262	248	256	---	---	---
7	248	240	245	288	245	273	267	249	258	262	242	---
8	252	204	232	293	275	286	255	227	242	260	236	248
9	232	201	220	296	280	286	250	220	---	253	241	246
10	230	199	217	300	292	---	---	---	---	251	236	248
11	229	207	219	337	317	---	170	164	---	265	236	241
12	231	203	219	340	320	331	162	135	146	262	230	---
13	233	213	224	342	311	327	154	139	146	262	229	---
14	230	213	224	335	299	316	160	143	150	226	198	---
15	230	212	221	322	297	309	169	153	163	---	---	---
16	227	208	218	307	282	296	171	164	---	219	198	---
17	---	---	---	307	277	293	145	134	---	217	203	210
18	224	214	---	304	278	293	148	140	143	236	211	226
19	227	217	222	301	286	---	150	146	148	252	227	238
20	227	221	224	300	274	291	160	148	155	245	230	244
21	230	221	225	304	230	268	173	159	164	276	243	251
22	236	225	230	272	217	249	172	163	168	---	---	---
23	262	228	234	271	226	244	170	165	168	---	---	---
24	253	236	244	242	213	225	182	174	---	---	---	---
25	256	238	249	236	213	---	183	177	181	---	---	---
26	258	230	245	226	212	218	186	178	181	---	---	---
27	255	240	249	236	219	228	192	182	187	251	244	---
28	261	244	253	239	225	230	194	187	191	258	236	246
29	275	248	261	242	216	231	195	189	193	248	236	245
30	272	248	260	249	212	231	199	192	196	243	228	237
31	275	212	266	---	---	---	223	197	213	238	215	230
MONTH	275	199	236	342	212	271	274	134	---	---	---	---

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	233	208	221	156	137	143	211	166	187	257	240	249
2	221	211	216	157	145	150	198	169	---	258	245	252
3	223	210	219	168	156	161	207	193	199	265	228	247
4	232	211	221	178	164	---	197	191	194	253	244	---
5	284	219	248	187	173	179	197	189	195	227	217	---
6	253	236	246	195	182	187	205	187	197	224	216	220
7	260	232	251	196	189	193	185	175	---	226	217	220
8	270	239	254	200	196	197	191	171	---	226	208	219
9	254	229	242	208	196	202	180	169	177	217	186	201
10	247	231	237	214	204	209	180	173	177	202	178	188
11	261	236	---	222	210	217	185	175	181	186	178	179
12	288	248	268	233	219	225	192	181	187	185	172	---
13	278	262	272	235	221	229	195	188	191	176	168	---
14	284	266	276	236	220	---	200	193	196	172	159	165
15	289	269	279	---	---	---	210	193	201	168	160	164
16	287	268	---	---	---	---	230	214	224	170	163	168
17	---	---	---	259	231	---	238	221	226	171	166	---
18	304	296	---	---	---	---	231	208	220	---	---	---
19	301	284	296	261	241	252	254	227	238	---	---	---
20	297	286	292	263	243	250	264	208	---	163	156	---
21	299	283	290	256	216	236	---	---	---	165	158	161
22	294	279	287	215	199	---	237	228	---	166	159	163
23	292	275	288	---	---	---	243	228	237	170	162	166
24	291	268	280	---	---	---	246	228	242	221	173	200
25	285	245	268	---	---	---	248	224	241	228	209	---
26	230	145	192	---	---	---	239	220	226	---	---	---
27	146	133	141	---	---	---	237	227	232	---	---	---
28	143	133	---	---	---	---	253	235	---	---	---	---
29	---	---	---	---	---	---	250	196	227	198	181	---
30	---	---	---	---	---	---	270	242	250	191	185	188
31	---	---	---	---	---	---	---	---	---	191	186	189
MONTH	304	133	251	---	---	---	270	166	---	280	154	---

01467200 DELAWARE RIVER AT BENJAMIN FRANKLIN BRIDGE, AT PHILADELPHIA, PA.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS AT 25°C), WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	190	157	184	---	---	---	242	236	---			
2	187	173	181	---	---	---	---	---	---			
3	192	184	188	---	---	---	---	---	---			
4	209	189	201	---	---	---	262	247	---			
5	211	190	202	---	---	---	274	256	264			
6	226	203	212	---	---	---	275	225	---			
7	235	196	---	300	295	---	---	---	---			
8	---	---	---	314	298	305	220	219	---			
9	213	205	---	319	300	309	235	217	225			
10	212	201	207	317	302	310	243	235	239			
11	208	175	192	350	310	331	248	238	---			
12	210	195	203	378	310	---	246	235	242			
13	228	220	226	---	---	---	248	215	228			
14	225	221	---	---	---	---	233	213	221			
15	---	---	---	223	182	---	276	232	255			
16	176	171	---	189	160	174	292	275	285			
17	189	175	180	179	165	173	296	284	---			
18	181	172	179	197	174	186	---	---	---			
19	183	172	178	229	193	208	321	294	---			
20	189	180	185	224	213	219	303	282	---			
21	196	186	190	243	209	222	---	---	---			
22	198	193	---	252	215	---	---	---	---			
23	199	185	---	280	222	---	---	---	---			
24	204	192	198	300	207	281	---	---	---			
25	209	197	204	295	211	240	---	---	---			
26	255	205	221	235	211	221	---	---	---			
27	263	240	251	252	228	---	---	---	---			
28	281	253	267	221	209	---	---	---	---			
29	262	215	235	238	181	---	---	---	---			
30	221	207	---	245	222	232	---	---	---			
31	---	---	---	257	238	249	---	---	---			
MONTH	281	157	---	---	---	---	---	---	---			

DISSOLVED OXYGEN (DO), IN MILLIGRAMS PER LITER, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	4.8	2.1	3.4	4.2	.7	1.9	8.9	5.8	6.9	9.1	7.9	8.5
2	5.0	3.0	4.1	3.6	.5	1.6	6.9	6.4	---	9.6	8.2	8.9
3	5.6	3.5	4.6	2.8	.6	---	---	---	---	9.2	7.8	8.4
4	5.6	3.7	4.5	1.9	.2	---	---	---	---	9.0	7.6	8.2
5	5.5	3.2	4.1	1.9	.4	1.0	---	---	---	9.5	7.7	8.4
6	5.4	2.0	3.9	1.9	.3	.9	---	---	---	---	---	---
7	5.6	2.0	3.8	1.7	.4	.8	---	---	---	10.9	9.2	---
8	5.9	3.1	4.2	1.8	0	.9	---	---	---	11.9	9.7	10.7
9	5.6	2.3	3.8	1.9	.6	1.0	---	---	---	11.9	9.8	10.7
10	5.3	2.1	3.5	.8	.7	---	---	---	---	12.2	9.6	10.8
11	4.5	1.4	2.6	2.8	.8	---	---	---	---	---	---	---
12	4.9	1.4	2.8	2.8	0	1.3	---	---	---	---	---	---
13	4.2	1.3	2.5	3.2	.7	1.7	---	---	---	---	---	---
14	4.4	1.5	2.8	5.1	1.6	3.2	---	---	---	---	---	---
15	4.8	1.9	3.0	6.9	3.3	4.8	---	---	---	---	---	---
16	4.8	2.2	3.5	6.9	4.5	5.6	---	---	---	---	---	---
17	---	---	---	6.5	4.4	5.5	10.6	10.2	---	---	---	---
18	4.1	2.4	---	6.2	4.6	---	10.5	10.2	10.4	11.2	10.5	---
19	4.2	2.6	3.3	6.5	3.3	---	10.4	9.8	10.1	11.0	10.7	10.9
20	4.5	2.9	3.6	6.6	3.7	5.0	10.1	9.4	9.8	11.0	10.5	11.1
21	4.9	3.4	4.2	7.4	4.5	5.9	9.8	8.8	9.3	11.2	10.6	10.9
22	4.6	3.0	3.9	8.2	5.2	6.4	10.1	8.9	9.6	---	---	---
23	4.6	2.3	3.4	7.4	5.0	6.3	10.1	8.8	9.4	---	---	---
24	3.6	2.0	2.6	8.4	5.9	7.1	10.5	9.2	---	---	---	---
25	3.6	1.6	2.4	8.6	6.3	---	10.4	8.8	9.5	---	---	---
26	3.5	.5	1.9	8.9	6.6	8.0	10.4	9.1	9.8	---	---	---
27	3.2	.4	1.8	8.6	6.8	7.8	10.2	9.0	9.7	---	---	---
28	2.7	.8	1.7	8.8	6.2	7.1	10.5	9.1	9.7	---	---	---
29	4.7	.7	2.1	8.9	6.3	7.5	10.1	8.3	9.4	---	---	---
30	4.6	1.3	2.6	8.9	6.7	7.7	10.0	8.8	9.4	---	---	---
31	3.9	.9	2.1	---	---	---	9.5	8.0	8.7	---	---	---
MONTH	5.9	.4	3.2	8.9	0	---	---	---	---	---	---	---

01467200 DELAWARE RIVER AT BENJAMIN FRANKLIN BRIDGE, AT PHILADELPHIA, PA.--Continued

DISSOLVED OXYGEN (DO), IN MILLIGRAMS PER LITER, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	11.9	11.5	11.7	11.1	9.7	10.5	6.8	5.0	5.8
2	---	---	---	11.9	11.5	11.7	10.9	10.3	---	6.4	4.5	5.3
3	---	---	---	11.7	11.4	11.6	10.6	7.9	10.2	5.9	3.9	4.8
4	---	---	---	11.3	11.1	---	10.8	10.4	10.6	6.1	4.0	5.0
5	11.2	10.4	---	11.4	10.5	10.8	10.7	10.3	10.5	6.9	5.1	---
6	11.1	10.1	10.7	11.4	10.4	10.8	11.1	10.3	10.7	---	---	---
7	11.4	9.9	10.6	11.5	10.9	11.1	11.8	11.1	11.3	---	---	---
8	11.2	10.0	10.6	11.6	10.5	11.1	11.4	10.8	11.1	---	---	---
9	11.6	10.4	11.1	11.3	10.4	10.8	11.4	10.8	11.0	---	---	---
10	11.4	10.7	11.1	11.0	10.1	10.5	11.3	10.6	10.9	---	---	---
11	11.5	10.9	---	10.8	9.6	10.2	10.9	10.3	10.6	---	---	---
12	11.5	10.7	11.1	10.4	9.5	9.9	10.6	7.9	10.1	---	---	---
13	11.3	10.6	10.9	10.6	9.3	9.8	10.3	9.7	9.9	6.3	5.3	---
14	11.4	10.7	11.0	10.6	9.3	---	10.3	9.6	9.8	6.6	5.0	5.8
15	11.5	10.4	10.9	---	---	---	10.0	9.1	9.6	6.9	5.1	6.1
16	11.2	10.3	---	---	---	---	8.9	7.8	8.3	7.0	5.6	6.1
17	---	---	---	10.2	9.4	---	8.7	7.6	8.1	6.1	5.1	---
18	11.2	10.5	---	---	---	---	8.5	7.6	8.1	---	---	---
19	11.6	10.2	11.0	10.2	8.9	9.6	8.5	7.9	8.2	---	---	---
20	11.6	10.7	11.2	10.4	9.0	9.7	8.3	7.7	---	5.7	4.7	---
21	11.6	10.7	11.1	10.2	9.7	9.9	---	---	---	5.4	4.2	4.8
22	11.4	10.4	10.9	10.0	9.3	9.6	8.6	7.1	7.8	4.7	3.3	4.2
23	11.3	10.2	10.6	10.4	9.7	---	8.7	6.8	7.8	3.9	2.9	3.4
24	10.9	9.9	---	---	---	---	7.6	6.1	6.8	3.8	2.6	3.0
25	11.1	9.6	10.3	---	---	---	7.8	5.5	6.3	3.9	2.8	---
26	11.7	10.8	11.2	---	---	---	7.7	6.1	6.7	---	---	---
27	11.9	11.5	11.6	---	---	---	7.9	6.5	7.1	---	---	---
28	12.0	11.6	---	---	---	---	7.4	5.8	6.5	---	---	---
29	---	---	---	---	---	---	7.8	6.5	---	3.0	2.4	---
30	---	---	---	---	---	---	7.5	5.9	6.5	3.4	1.6	2.1
31	---	---	---	---	---	---	---	---	---	2.1	1.3	1.6
MONTH	12.0	9.6	---	---	---	---	11.8	5.5	9.0	---	---	---

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	2.6	1.2	1.8	---	---	---	2.7	.7	1.4			
2	2.7	1.6	2.0	---	---	---	1.7	.5	.9			
3	2.7	1.3	1.8	---	---	---	1.5	.5	.9			
4	2.2	1.2	1.5	---	---	---	1.5	.6	.9			
5	2.4	1.2	1.5	---	---	---	1.3	.4	.8			
6	2.8	1.4	1.8	---	---	---	.7	.2	.4			
7	3.9	1.8	2.9	1.7	.8	---	.6	.3	.5			
8	4.7	3.5	4.1	1.3	.5	.9	.5	.2	.3			
9	4.9	3.8	4.2	1.1	.4	.7	.6	.3	.4			
10	4.5	2.2	3.7	.9	.3	.6	.5	.3	.4			
11	4.6	3.1	3.8	.8	.3	.5	1.4	.9	---			
12	4.4	2.9	3.6	3.2	.3	1.4	1.6	.8	1.1			
13	4.8	3.1	3.9	3.4	2.2	---	1.6	.7	1.1			
14	5.1	3.8	4.3	---	---	---	1.5	.8	1.2			
15	5.3	4.2	4.6	4.0	3.0	---	1.9	.7	1.2			
16	5.0	4.2	4.6	4.4	2.9	3.3	1.3	.4	.8			
17	4.6	3.4	3.9	4.0	2.5	3.0	1.1	.3	.6			
18	3.8	2.2	3.2	3.0	2.0	2.5	.9	.3	.5			
19	3.3	2.2	2.7	2.7	1.5	2.2	1.7	.3	---			
20	2.6	2.1	---	2.8	1.6	2.0	1.5	.5	.8			
21	---	---	---	4.3	2.1	2.8	1.1	.4	.6			
22	---	---	---	3.2	2.1	2.5	.8	.2	.4			
23	3.2	2.3	---	2.8	1.6	---	---	---	---			
24	2.7	2.0	2.3	2.7	1.3	1.8	---	---	---			
25	2.2	1.5	1.7	2.8	1.2	1.8	1.0	.6	---			
26	1.9	1.2	1.4	3.4	1.8	2.4	1.0	.4	.7			
27	1.6	1.2	1.3	3.4	1.8	2.4	1.1	.4	.8			
28	1.4	1.1	1.2	3.4	2.2	---	1.4	.5	.9			
29	1.5	1.1	1.2	3.5	2.0	---	---	---	---			
30	1.4	1.1	---	3.4	1.7	2.2	---	---	---			
31	---	---	---	2.8	1.2	1.6	---	---	---			
MONTH	5.3	1.1	2.8	---	---	---	2.7	.2	---			

01467200 DELAWARE RIVER AT BENJAMIN FRANKLIN BRIDGE, AT PHILADELPHIA, PA.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	20.0	19.0	19.5	15.5	14.5	15.0	6.5	6.0	6.5	5.0	4.5	5.0
2	20.0	18.0	19.0	15.5	14.5	15.0	6.5	6.0	---	5.0	4.5	4.5
3	18.5	17.0	18.0	15.0	15.0	---	6.0	5.0	---	6.0	4.5	5.0
4	17.0	16.5	17.0	15.0	14.5	---	5.5	5.0	5.0	5.5	5.0	5.5
5	17.0	16.0	16.5	15.0	14.5	14.5	5.5	5.0	5.0	5.5	4.5	5.0
6	16.5	16.0	16.0	15.0	14.5	14.5	5.5	5.0	5.0	---	---	---
7	16.5	15.5	16.0	15.0	14.0	14.5	6.0	5.0	5.5	5.0	4.5	5.0
8	16.5	15.5	16.0	14.5	14.0	14.0	6.0	5.0	5.0	5.0	4.5	5.0
9	16.0	15.5	16.0	14.0	13.5	14.0	5.0	5.0	---	5.5	5.0	5.5
10	16.0	15.5	16.0	14.0	14.0	---	---	---	---	5.0	4.5	5.0
11	16.0	15.5	16.0	14.5	14.0	---	5.5	5.0	---	6.0	5.0	5.5
12	16.0	15.5	15.5	14.5	14.0	14.0	5.5	4.5	5.0	6.0	5.5	6.0
13	16.0	15.5	16.0	14.5	14.0	14.0	5.0	4.5	5.0	6.0	5.5	6.0
14	16.0	15.5	16.0	14.5	13.5	14.0	5.0	4.5	5.0	6.0	5.5	---
15	16.0	15.5	15.5	13.5	12.0	13.0	5.5	4.5	5.0	---	---	---
16	16.0	15.5	15.5	13.0	11.5	12.0	5.5	5.0	---	1.5	1.5	---
17	---	---	---	12.0	11.0	11.5	5.5	5.5	---	2.0	1.5	2.0
18	15.5	15.0	---	11.5	10.5	11.0	5.5	5.0	5.5	2.0	2.0	2.0
19	15.0	14.5	15.0	10.5	10.0	---	5.5	5.0	5.5	3.0	2.0	2.5
20	15.0	14.0	14.5	10.5	9.5	10.0	5.5	5.0	5.5	3.0	3.0	3.0
21	14.0	13.5	14.0	10.0	8.5	9.5	5.5	5.0	5.5	3.0	3.0	3.0
22	14.0	13.5	13.5	9.0	8.5	8.5	5.0	4.5	5.0	---	---	---
23	14.0	13.5	13.5	9.0	8.0	8.5	5.0	4.5	5.0	---	---	---
24	15.0	13.5	14.0	8.5	7.0	7.5	5.0	4.5	---	---	---	---
25	15.0	14.0	14.5	8.5	8.0	---	5.0	4.5	4.5	---	---	---
26	15.0	14.0	14.5	8.0	7.0	7.0	5.0	4.5	4.5	---	---	---
27	14.5	14.0	14.5	7.0	6.5	7.0	5.0	4.5	4.5	5.0	5.0	---
28	14.5	13.5	14.5	7.0	6.5	6.5	5.0	4.5	4.5	5.5	5.0	5.0
29	15.0	14.0	14.5	6.5	6.0	6.5	4.5	4.5	4.5	6.0	5.0	5.5
30	15.0	14.5	14.5	6.5	6.0	6.0	5.0	4.5	5.0	6.0	5.5	6.0
31	15.0	14.5	15.0	---	---	---	5.0	4.5	5.0	6.0	5.5	5.5
MONTH	20.0	13.5	15.5	15.5	6.0	11.0	6.5	4.5	---	---	---	---

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	6.0	5.5	5.5	4.5	4.0	4.5	8.0	4.5	6.5	14.5	14.5	14.5
2	6.0	5.5	5.5	4.5	4.0	4.5	8.0	5.5	---	14.5	14.0	14.5
3	6.0	5.5	5.5	4.5	4.0	4.0	8.0	7.0	7.5	15.0	14.5	14.5
4	5.5	5.0	5.5	4.0	4.0	---	8.0	7.0	7.5	14.5	14.5	14.5
5	5.5	4.0	4.5	4.5	4.0	4.0	7.0	7.0	7.0	15.0	14.5	14.5
6	4.5	4.0	4.0	4.5	4.0	4.5	7.0	5.5	6.5	15.0	14.5	14.5
7	4.5	3.5	4.0	4.5	4.0	4.5	5.5	5.0	---	15.0	14.5	15.0
8	4.0	3.5	3.5	4.0	4.0	4.0	5.5	5.5	5.5	15.5	15.0	15.5
9	3.5	3.0	3.5	4.5	4.0	4.0	6.0	5.5	5.5	16.0	15.5	16.0
10	3.5	3.0	3.0	4.5	4.0	4.5	6.5	5.5	6.0	16.5	16.0	16.0
11	3.5	3.0	3.0	5.0	4.5	4.5	7.0	6.0	6.5	19.5	16.0	14.5
12	3.5	3.0	3.0	5.5	5.0	5.0	8.0	6.5	7.0	17.0	16.5	---
13	3.0	3.0	3.0	5.0	5.0	5.0	8.5	7.0	8.0	17.0	17.0	---
14	3.0	3.0	3.0	5.0	5.0	---	9.0	8.0	8.5	18.0	17.0	17.5
15	3.0	3.0	3.0	---	---	---	9.0	8.0	8.5	18.5	18.0	18.5
16	3.0	3.0	---	---	---	---	10.0	9.0	10.0	19.0	18.5	19.0
17	---	---	---	6.0	5.0	---	11.0	10.0	10.5	21.5	19.0	20.0
18	3.5	3.0	---	---	---	---	11.0	10.5	10.5	21.5	19.5	20.5
19	4.0	3.5	3.5	7.0	6.0	6.5	11.5	11.0	11.0	21.0	20.0	---
20	4.0	3.5	4.0	7.0	6.5	7.0	11.5	11.0	---	20.0	20.0	---
21	5.0	4.0	4.5	8.5	7.0	8.0	---	---	---	20.5	20.0	20.0
22	5.5	4.5	5.0	8.5	7.0	8.0	11.5	11.0	11.0	21.0	20.5	20.5
23	6.0	5.0	5.5	8.0	6.5	---	13.0	11.5	12.0	21.5	21.0	21.5
24	6.0	5.0	5.5	---	---	---	13.5	12.0	13.0	22.0	21.5	21.5
25	6.5	5.5	6.0	---	---	---	14.0	12.0	13.5	22.0	21.5	---
26	6.5	4.0	5.5	---	---	---	14.0	13.5	14.0	---	---	---
27	4.5	4.0	4.0	---	---	---	14.0	13.5	14.0	---	---	---
28	4.5	4.0	---	---	---	---	14.0	14.0	14.0	---	---	---
29	---	---	---	---	---	---	14.5	13.5	14.0	23.5	23.5	---
30	---	---	---	---	---	---	14.5	14.0	14.5	23.5	23.0	23.5
31	---	---	---	---	---	---	---	---	---	23.5	23.0	23.5
MONTH	6.5	3.0	4.5	---	---	---	14.5	4.5	9.5	23.5	14.0	---

DELAWARE RIVER BASIN

01467200 DELAWARE RIVER AT BENJAMIN FRANKLIN BRIDGE, AT PHILADELPHIA, PA.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	23.5	23.5	23.5	---	---	---	26.0	25.0	25.5	---	---	---
2	23.5	23.0	23.5	---	---	---	26.5	25.5	26.0	---	---	---
3	23.5	23.5	23.5	---	---	---	26.5	26.0	26.5	25.0	24.5	---
4	23.5	23.5	23.5	---	---	---	27.0	26.5	27.0	24.5	24.5	24.5
5	23.5	22.0	23.5	---	---	---	27.0	26.5	27.0	24.5	24.5	24.5
6	23.5	23.0	23.0	---	---	---	27.0	26.5	26.5	24.5	24.0	24.5
7	23.0	22.0	23.0	23.5	23.5	---	26.5	26.0	26.0	24.5	24.0	24.0
8	22.0	21.5	21.5	24.0	23.5	23.5	26.0	25.5	26.0	24.5	23.5	---
9	22.0	20.0	21.0	24.0	23.5	23.5	26.0	25.5	26.0	24.0	24.0	24.0
10	20.5	20.0	20.5	24.0	23.5	23.5	26.0	25.5	26.0	24.0	23.0	23.5
11	20.5	19.5	20.0	24.0	23.5	23.5	26.0	26.0	---	23.0	23.0	23.0
12	20.0	19.0	19.5	23.5	23.0	23.5	26.0	26.0	26.0	23.0	23.0	---
13	19.5	19.0	19.5	23.0	22.0	---	26.5	26.0	26.5	---	---	---
14	20.0	19.5	20.0	---	---	---	26.5	26.0	26.5	---	---	---
15	20.5	20.0	20.5	24.5	23.5	---	26.5	26.0	26.5	---	---	---
16	21.0	20.0	20.5	23.5	22.0	23.5	26.0	25.5	26.0	---	---	---
17	21.5	20.5	21.0	24.0	23.0	23.5	26.0	25.5	25.5	---	---	---
18	22.0	21.0	21.5	24.5	23.5	24.0	26.0	25.5	25.5	21.5	21.0	---
19	23.0	22.0	22.5	24.5	24.0	24.5	25.5	25.5	---	21.5	21.0	21.0
20	23.5	23.0	23.5	25.0	24.5	24.5	25.5	25.0	25.5	21.5	21.0	21.5
21	24.0	23.0	23.5	25.5	24.5	25.0	25.5	25.5	25.5	21.5	21.0	21.5
22	23.5	23.5	---	25.5	24.5	25.0	25.5	25.0	25.0	21.5	21.0	21.0
23	24.5	23.5	---	26.0	25.5	25.5	---	---	---	21.0	21.0	21.0
24	24.5	24.0	24.5	26.0	25.5	26.0	---	---	---	20.5	19.5	---
25	25.5	24.5	25.0	26.0	25.5	25.5	26.0	26.0	---	19.5	19.0	---
26	25.0	24.5	25.0	25.5	25.0	25.0	26.5	26.0	26.0	---	---	---
27	25.0	24.5	24.5	25.5	25.0	25.0	26.5	26.0	26.5	---	---	---
28	25.0	24.5	24.5	26.0	25.5	---	26.5	26.5	26.5	19.0	19.0	---
29	25.0	24.5	25.0	26.0	25.5	25.5	26.5	25.0	---	19.0	17.0	18.0
30	24.5	24.5	---	26.0	25.0	25.5	---	---	---	18.0	17.0	17.5
31	---	---	---	26.0	25.0	25.5	---	---	---	---	---	---
MONTH	25.5	19.0	22.5	---	---	---	27.0	25.0	---	---	---	---

pH (UNITS), WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	7.3	6.8	7.0	6.9	6.6	6.8	6.9	6.7	6.8
2	---	---	---	7.3	6.8	7.0	6.9	6.8	---	7.0	6.7	6.9
3	---	---	---	7.3	6.8	---	6.9	6.7	---	7.0	6.6	6.8
4	---	---	---	---	---	---	7.0	6.8	6.9	6.9	6.8	6.8
5	---	---	---	---	---	---	---	---	---	7.0	6.8	6.9
6	---	---	---	---	---	---	---	---	---	---	---	---
7	---	---	---	---	---	---	6.9	6.7	---	6.9	6.6	6.8
8	---	---	---	---	---	---	---	---	---	6.9	6.6	6.7
9	---	---	---	---	---	---	---	---	---	6.9	6.7	6.8
10	---	---	---	---	---	---	6.9	6.8	---	7.0	6.8	---
11	---	---	---	---	---	---	6.8	6.7	---	7.0	6.8	---
12	---	---	---	---	---	---	6.7	6.5	6.6	7.0	6.8	---
13	---	---	---	---	---	---	6.7	6.6	6.6	7.1	6.9	---
14	---	---	---	---	---	---	6.7	6.6	6.6	---	---	---
15	---	---	---	---	---	---	7.2	6.6	6.9	---	---	---
16	---	---	---	---	---	---	6.8	6.8	---	7.2	6.9	---
17	---	---	---	---	---	---	6.8	6.7	---	7.2	7.0	7.1
18	---	---	---	---	---	---	6.8	6.7	6.8	7.1	6.8	6.9
19	---	---	---	6.9	6.6	---	6.8	6.7	6.8	6.9	6.8	6.8
20	---	---	---	7.0	6.7	6.8	6.8	6.7	6.8	7.1	6.8	6.9
21	---	---	---	6.9	6.7	6.8	6.8	6.6	6.7	7.1	6.8	6.9
22	---	---	---	6.9	6.6	6.8	6.9	6.7	6.8	---	---	---
23	6.9	6.7	---	6.8	6.3	6.6	6.9	6.7	6.8	---	---	---
24	6.9	6.6	---	6.8	6.6	6.7	6.9	6.3	---	---	---	---
25	7.0	6.8	---	6.8	6.6	---	6.8	6.1	6.7	---	---	---
26	6.9	6.7	6.8	7.1	6.8	6.9	6.9	6.3	6.8	---	---	---
27	6.9	6.3	6.7	6.9	6.6	6.8	6.9	6.7	6.8	6.9	6.8	---
28	7.0	6.6	6.8	6.9	6.6	6.7	6.9	6.7	6.8	6.9	6.8	6.8
29	7.0	6.8	6.9	6.9	6.6	6.6	6.9	6.7	6.8	6.9	6.7	6.8
30	7.1	6.9	7.0	7.0	6.5	6.8	6.9	6.7	6.9	6.9	6.8	6.9
31	7.3	6.8	7.0	---	---	---	6.9	6.7	6.8	7.0	6.8	6.9
MONTH	---	---	---	---	---	---	7.2	6.1	---	---	---	---

01467200 DELAWARE RIVER AT BENJAMIN FRANKLIN BRIDGE, AT PHILADELPHIA, PA.--Continued

pH (UNITS), WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	6.9	6.8	6.8	6.8	6.6	6.7	7.4	6.9	7.1	6.8	6.6	6.7
2	6.9	6.8	6.8	6.8	6.7	6.7	---	---	---	6.8	6.6	6.7
3	6.9	6.8	6.8	6.8	6.6	6.7	---	---	---	6.8	6.6	6.7
4	6.9	6.8	6.8	7.3	6.8	---	---	---	---	7.0	6.7	6.8
5	6.9	6.7	6.8	7.2	6.9	7.0	---	---	---	7.1	6.7	---
6	6.9	6.7	6.8	7.0	6.8	6.9	---	---	---	---	---	---
7	6.9	6.8	6.8	7.1	6.9	7.0	---	---	---	---	---	---
8	7.0	6.7	6.9	7.2	6.9	7.0	---	---	---	---	---	---
9	7.0	6.8	6.9	7.3	6.9	7.0	6.9	6.8	6.9	---	---	---
10	7.1	6.8	6.9	7.1	6.9	7.0	7.0	6.8	6.9	---	---	---
11	6.9	6.8	---	7.2	6.9	7.0	6.9	6.8	6.8	---	---	---
12	6.9	6.8	6.9	7.1	6.9	7.0	6.9	6.7	6.8	---	---	---
13	7.0	6.8	6.9	7.2	7.0	7.1	6.9	6.7	6.8	7.1	6.6	---
14	7.0	6.9	6.9	7.3	7.2	---	6.9	6.8	6.8	6.7	6.6	6.6
15	7.0	6.8	6.9	---	---	---	6.9	6.7	6.8	7.0	6.6	6.6
16	7.0	6.8	---	---	---	---	6.9	6.7	6.8	6.6	6.5	6.6
17	---	---	---	7.3	6.8	---	6.9	6.8	---	6.6	6.5	---
18	7.1	6.9	---	---	---	---	7.0	6.7	6.9	---	---	---
19	7.0	6.8	6.9	8.1	7.0	7.4	7.0	6.8	6.9	---	---	---
20	6.9	6.8	6.9	7.2	7.0	7.1	7.0	6.8	---	6.8	6.7	---
21	7.0	6.8	6.9	7.2	7.1	7.1	---	---	---	6.8	6.5	6.7
22	6.9	6.8	6.9	7.2	7.0	7.1	6.9	6.5	6.7	6.8	6.7	6.8
23	7.1	6.9	---	7.0	7.0	---	7.2	6.7	6.8	7.0	6.8	6.9
24	7.5	6.9	7.1	---	---	---	7.2	7.1	---	7.1	6.6	6.9
25	7.0	6.8	7.0	---	---	---	7.4	6.7	---	6.7	6.6	---
26	7.0	6.7	6.9	---	---	---	6.9	6.7	6.8	---	---	---
27	6.7	6.6	6.6	---	---	---	7.0	6.8	6.9	---	---	---
28	6.9	6.6	---	---	---	---	6.9	6.8	6.8	---	---	---
29	---	---	---	---	---	---	6.9	6.5	6.7	6.7	6.7	---
30	---	---	---	---	---	---	6.9	6.6	6.7	7.0	6.7	6.9
31	---	---	---	---	---	---	---	---	---	7.5	6.8	7.1
MONTH	7.0	6.6	6.9	---	---	---	---	---	---	---	---	---

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	7.0	6.5	6.7	---	---	---	6.6	6.5	6.5			
2	6.7	6.5	6.6	---	---	---	6.6	6.5	6.5			
3	6.9	6.7	6.8	---	---	---	6.5	6.5	6.5			
4	6.8	6.8	6.8	---	---	---	6.9	6.5	6.7			
5	7.3	6.8	7.0	---	---	---	7.0	6.8	6.9			
6	7.4	6.9	7.2	---	---	---	7.1	6.8	6.9			
7	7.0	6.8	6.9	---	---	---	7.0	6.8	6.9			
8	6.9	6.8	6.9	---	---	---	6.9	6.9	---			
9	6.9	6.7	6.8	---	---	---	6.9	6.8	6.9			
10	6.8	6.7	6.8	---	---	---	7.0	6.8	6.9			
11	6.8	6.7	6.7	---	---	---	6.9	6.7	---			
12	7.0	6.8	---	---	---	---	6.9	6.8	6.8			
13	---	---	---	---	---	---	6.9	6.8	6.9			
14	---	---	---	---	---	---	7.0	6.8	6.9			
15	---	---	---	6.7	6.7	---	6.9	6.9	6.9			
16	6.4	5.9	---	6.8	6.7	6.7	7.1	6.9	7.1			
17	5.9	5.8	5.9	6.9	6.8	6.8	7.1	7.1	7.1			
18	5.9	5.8	5.9	6.9	6.8	6.9	7.1	6.9	7.0			
19	6.1	5.9	5.9	7.1	6.8	6.9	6.9	6.7	---			
20	6.1	5.9	6.0	7.0	6.8	6.9	6.9	6.6	6.7			
21	6.0	5.9	5.9	6.9	6.7	6.8	---	---	---			
22	6.0	5.9	---	6.9	6.8	6.9	---	---	---			
23	6.1	6.0	---	6.9	6.8	---	---	---	---			
24	6.0	5.9	5.9	6.9	6.8	6.8	---	---	---			
25	6.1	5.9	6.0	6.9	6.8	6.8	6.6	6.5	---			
26	6.2	5.9	6.1	6.9	6.8	6.9	6.6	6.5	6.5			
27	6.2	5.8	6.0	6.9	6.9	6.9	6.6	6.5	6.5			
28	6.2	5.7	6.0	6.8	6.6	---	6.6	6.5	6.6			
29	6.3	5.7	6.0	6.6	6.5	---	---	---	---			
30	6.2	6.2	---	6.6	6.5	6.6	---	---	---			
31	---	---	---	6.6	6.5	6.5	---	---	---			
MONTH	7.4	5.7	---	---	---	---	---	---	---			

01467348 NORTH BRANCH BIG TIMBER CREEK AT BERLIN ROAD AT CLEMENTON, N. J.

LOCATION.--Lat 39°48'19", long 74°59'21", Camden County, at bridge on Berlin Road, 0.08 mi (0.13 km) downstream from outflow of Clementon Lake, and 1.3 mi (2.1 km) northwest of Sharps Corner.

DRAINAGE AREA.--2.97 mi^2 (7.69 km^2).

PERIOD OF RECORD.--Chemical analyses: September 1975.

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	DIS-SOLVED OXYGEN (MG/L)	BIO-CHEM-ICAL OXYGEN DEMAND 5 DAY (MG/L)	FECAL COLI-FORM (EC BROTH) (MPN)	FECAL COLI-FORM (COL. PER 100 ML)	TUR-BID-ITY (JTU)	COLOR (PLAT-INUM-COBALT UNITS)	TOTAL ORGANIC NITRO-GEN (N) (MG/L)
SEP. 30...	1340	20.5	69	6.9	9.3	2.3	130	116	7	30	.45

DATE	AMMONIA NITRO-GEN (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	TOTAL ORTHO PHOS-PHORUS (P) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	CAR-BONATE (CO3) (MG/L)	BICAR-BONATE (HCO3) (MG/L)
SEP. 30...	.01	.01	.31	.46	.78	.04	.01	8.0	4	0	5

DATE	CARBON DIOXIDE (CO2) (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	TOTAL NON-FILT-RABLE RESIDUE (MG/L)
SEP. 30...	1.0	8	4	3.0	.2	4.0	1.9	4.9	11	46	2

DELAWARE RIVER BASIN

01467369 ALMONESSON CREEK AT RUNNEMEDE, N. J.

LOCATION.--Lat 39°50'44", long 75°05'43", Gloucester County, at bridge on State Route 42, 0.68 mi (1.09 km) south of State Route 42 overpass and N. J. Turnpike, and 0.71 mi (1.14 km) northwest of Clements Bridge.

DRAINAGE AREA.--3.79 mi² (9.82 km).

PERIOD OF RECORD.--Chemical analyses: September 1975.

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	TEMPERATURE (DEG C)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	DISSOLVED OXYGEN (MG/L)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L)	FECAL COLIFORM (EC BROTH) (MPN)	FECAL COLIFORM (COL. PER 100 ML)	TURBIDITY (JTU)	COLOR (PLATINUM-COBALT UNITS)	TOTAL ORGANIC NITROGEN (N) (MG/L)
SEP. 30...	1150	19.5	202	6.6	3.7	6.2	140	300	6	10	.60

DATE	AMMONIA NITROGEN (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL ORTHO PHOSPHORUS (P) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)	ALKALINITY AS CACO3 (MG/L)	CARBONATE (CO3) (MG/L)	BICARBONATE (HCO3) (MG/L)
SEP. 30...	1.3	.09	.74	1.9	2.7	.44	.20	12	27	0	33

DATE	CARBON DIOXIDE (CO2) (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	TOTAL NONFILTRABLE RESIDUE (MG/L)
SEP. 30...	13	43	16	14	1.9	11	4.9	12	22	118	22

DELAWARE RIVER BASIN

01474703 DELAWARE RIVER AT FORT MIFFLIN, AT PHILADELPHIA, PA.

LOCATION.--Lat 39°52'43", long 75°12'11", Philadelphia County, water-quality recorder on right bank at outer end of L-shaped pier at Fort Mifflin, 0.4 mi (0.6 km) downstream from mouth of Schuylkill River, in Philadelphia.

DRAINAGE AREA.--10,000 mi² (25,900 km²), approximately.

PERIOD OF RECORD.--Chemical analyses: July 1970 to September 1971.
Water temperatures: July 1970 to September 1975.

EXTREMES.--1974-75:
Water temperatures: Maximum, 31.0°C Aug. 4, 5, 6, 13; minimum, 1.5°C Feb. 14, 15.
Period of record:
Water temperatures: Maximum, 30.0°C Sept. 4, 1973; minimum, 1.5°C Feb. 14, 15, 1975.

REMARKS.--Missing continuous water-quality records are the result of malfunction of sensor or sampling mechanism.

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	20.5	20.0	---	14.0	13.0	13.5	6.0	5.5	5.5	5.5	5.0	5.0
2	20.0	19.0	19.5	14.0	13.5	13.5	7.0	6.0	---	5.5	4.5	5.0
3	19.5	18.5	19.0	14.0	13.5	13.5	7.0	5.5	6.0	4.5	4.5	4.5
4	18.5	18.0	18.0	14.5	13.5	14.0	6.5	5.0	5.5	5.0	4.5	4.5
5	18.5	18.0	18.0	15.0	14.0	14.0	5.0	4.5	4.5	4.5	4.0	4.0
6	18.0	17.0	18.0	14.5	13.5	14.0	5.0	4.5	4.5	5.5	4.0	5.0
7	18.0	17.0	17.5	14.5	13.5	14.0	5.0	4.5	4.5	6.0	5.0	5.5
8	17.0	16.5	17.0	14.0	13.5	13.5	6.0	4.5	5.0	5.5	5.0	5.0
9	17.0	16.5	16.5	14.5	13.0	13.5	6.0	5.0	5.5	6.0	5.5	6.0
10	17.0	16.5	16.5	13.5	12.0	13.0	6.0	4.0	5.0	6.5	5.5	6.0
11	17.0	16.5	16.5	13.5	12.0	13.0	5.0	4.0	4.5	7.0	6.0	6.5
12	17.0	16.5	16.5	13.5	12.0	13.0	4.5	4.0	4.5	7.0	6.0	6.5
13	17.0	16.5	16.5	13.0	11.5	12.5	4.5	4.0	4.0	8.0	6.0	6.5
14	17.0	16.5	16.5	13.5	11.5	12.0	4.5	4.0	4.0	8.0	5.5	6.5
15	17.0	16.5	17.0	13.0	11.0	12.0	4.5	3.5	4.0	6.0	4.5	5.0
16	18.0	16.5	16.5	14.0	11.0	11.5	5.0	3.5	4.5	5.0	4.0	4.5
17	18.0	16.5	17.0	11.5	10.5	11.0	6.0	4.0	5.0	5.0	3.5	4.0
18	16.5	16.0	16.0	11.0	10.0	10.5	5.0	4.0	4.5	4.0	3.0	3.5
19	16.0	15.0	15.0	11.0	10.0	10.0	4.5	4.0	4.0	4.0	3.0	3.5
20	15.0	14.5	14.5	10.5	10.0	10.5	4.5	4.0	4.0	3.5	2.0	3.0
21	14.5	14.0	14.0	11.0	9.0	10.0	4.5	4.0	4.0	3.0	1.5	2.0
22	14.0	13.5	14.0	10.5	8.5	9.5	4.5	4.0	4.0	3.0	2.0	2.0
23	14.5	13.5	14.0	10.0	9.0	9.0	4.5	4.0	4.0	3.0	2.0	2.0
24	14.0	13.5	14.0	9.5	8.5	9.0	4.5	4.0	4.5	3.0	2.0	2.5
25	14.0	13.5	14.0	9.5	8.0	8.5	4.5	4.0	4.5	3.5	2.0	3.0
26	14.0	14.0	14.0	9.0	7.0	7.5	4.5	3.5	4.0	4.5	3.0	4.0
27	14.0	13.5	13.5	8.0	6.5	6.5	4.5	4.0	4.0	4.5	3.0	4.0
28	14.0	13.5	13.5	7.0	6.0	6.5	4.5	3.5	4.0	4.0	3.0	3.5
29	15.0	12.0	13.5	7.0	6.0	6.0	4.5	4.0	4.0	4.5	3.5	4.0
30	13.0	12.0	12.5	7.0	5.5	6.0	6.0	4.0	5.0	5.0	4.0	4.5
31	13.5	12.0	13.0	---	---	---	5.0	5.0	5.0	5.0	4.5	4.5
MONTH	20.5	12.0	15.5	15.0	5.5	11.0	7.0	3.5	4.5	8.0	1.5	4.5

01474703 DELAWARE RIVER AT FORT MIFFLIN, AT PHILADELPHIA, PA.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	FEBRUARY			MARCH			APRIL			MAY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	5.0	4.0	4.5	6.5	4.5	6.0	9.0	7.0	8.0	15.0	14.5	14.5
2	4.5	4.0	4.5	6.5	5.0	6.0	9.5	8.0	8.5	15.5	14.0	15.0
3	4.5	4.0	4.0	6.0	4.5	5.0	9.5	7.0	8.5	17.0	15.0	15.5
4	4.5	3.5	4.0	5.5	4.0	5.0	9.5	7.0	8.5	16.0	15.0	15.5
5	4.0	3.5	4.0	5.0	4.0	4.5	8.0	6.0	7.0	17.0	15.0	15.5
6	4.0	3.5	4.0	5.5	4.5	5.0	6.0	5.5	6.0	15.5	15.0	15.5
7	3.5	3.5	3.5	5.0	4.5	5.0	6.5	5.5	6.0	16.0	14.5	15.0
8	3.5	3.0	3.5	6.0	5.0	5.5	7.0	6.0	6.5	16.5	15.0	15.5
9	4.0	3.0	3.5	6.0	4.5	5.0	8.5	6.0	6.5	16.5	15.5	16.0
10	3.5	3.0	3.0	5.5	4.0	4.5	8.5	6.0	7.0	17.0	15.5	16.0
11	3.5	3.0	3.0	6.0	4.5	5.0	9.0	6.0	7.5	18.0	16.0	17.0
12	3.0	2.0	3.0	6.0	4.5	5.0	9.0	6.5	7.5	18.0	16.0	17.0
13	3.0	2.0	2.5	6.5	5.0	6.0	9.0	6.5	8.0	19.0	16.5	18.0
14	3.0	1.5	2.0	6.5	5.5	6.0	10.0	7.0	9.0	19.5	18.0	18.5
15	2.0	1.5	2.0	7.0	5.0	6.0	10.0	8.5	9.0	19.5	18.5	19.0
16	3.0	2.0	2.5	7.0	5.5	6.5	10.5	8.5	9.5	19.5	18.5	19.0
17	3.5	2.0	2.5	8.0	5.5	6.5	11.5	9.5	10.5	20.0	19.0	19.5
18	4.5	3.0	3.5	8.0	6.0	6.5	11.0	8.5	9.5	20.5	19.5	20.0
19	5.5	3.5	4.5	9.5	6.0	7.0	13.0	10.0	11.0	20.5	18.5	19.5
20	6.0	4.0	5.0	10.0	8.0	9.0	11.5	10.5	11.0	19.5	18.0	18.5
21	6.0	4.0	5.0	9.0	8.5	8.5	12.0	10.5	11.5	19.0	18.5	18.5
22	6.0	4.0	5.0	9.0	8.0	8.5	13.0	11.0	11.5	19.5	18.5	19.0
23	6.5	4.5	5.0	9.0	8.5	8.5	14.0	11.0	12.0	20.5	19.0	19.5
24	7.0	5.5	6.5	9.5	8.5	9.0	14.5	12.0	13.0	21.0	19.5	20.0
25	7.0	6.0	6.5	10.0	8.5	9.0	15.5	13.0	14.0	21.0	19.5	20.0
26	6.5	6.0	6.5	9.5	8.0	9.0	16.0	13.5	14.5	20.5	19.5	20.0
27	6.5	5.5	6.0	9.0	7.0	8.0	15.0	14.0	14.5	22.0	19.5	21.0
28	6.5	5.0	6.0	8.5	7.0	7.5	14.5	14.0	14.5	22.0	21.5	21.5
29	---	---	---	8.5	7.0	7.5	15.0	14.0	14.5	23.0	21.5	22.0
30	---	---	---	8.5	7.0	7.5	16.0	14.0	15.0	23.0	21.5	22.0
31	---	---	---	9.0	7.0	8.0	---	---	---	24.0	22.0	23.0
MONTH	7.0	1.5	4.0	10.0	4.0	6.5	16.0	5.5	10.0	24.0	14.0	18.5

DAY	JUNE			JULY			AUGUST			SEPTEMBER		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	24.0	23.0	23.5	26.0	24.5	25.5	28.5	26.0	28.0	---	---	---
2	24.0	23.5	23.5	25.5	25.0	25.5	29.0	28.0	28.5	24.0	21.0	---
3	23.5	23.5	23.5	26.0	25.0	25.5	29.5	28.5	29.0	21.5	19.0	20.0
4	23.5	23.0	23.5	26.0	25.0	25.5	31.0	28.0	29.5	21.5	19.0	20.0
5	23.5	23.0	23.5	26.5	25.5	26.0	31.0	29.5	30.0	24.0	20.5	22.0
6	23.5	23.0	23.5	26.0	25.5	26.0	31.0	29.0	30.0	22.0	21.0	21.5
7	23.0	21.5	22.5	26.5	26.0	26.0	29.5	28.5	29.0	23.0	21.0	22.0
8	22.0	21.0	21.5	26.5	26.0	26.0	28.5	28.0	28.0	23.5	19.5	22.0
9	22.0	21.0	21.5	26.5	26.0	26.0	28.5	28.0	28.0	19.5	19.0	19.0
10	22.0	21.0	21.5	26.5	26.0	26.0	28.0	28.0	28.0	19.5	17.0	18.0
11	21.5	20.5	21.0	26.5	26.0	26.0	28.5	27.0	28.0	19.0	18.5	19.0
12	21.0	20.5	21.0	26.5	26.0	26.5	30.0	28.0	28.5	20.0	19.0	19.5
13	21.0	19.5	20.5	27.0	24.0	26.0	31.0	28.5	29.5	19.5	18.5	19.5
14	21.0	19.5	20.5	25.5	23.0	24.5	30.5	26.5	29.5	20.0	18.5	19.5
15	22.0	20.5	21.5	26.5	23.0	25.0	30.5	29.0	30.0	20.5	19.0	19.5
16	22.0	21.0	21.5	26.0	24.5	25.5	30.0	28.0	28.5	21.0	20.0	20.5
17	23.5	21.5	22.5	27.0	24.5	25.5	28.5	27.0	28.0	23.0	21.0	22.0
18	24.5	22.0	23.5	26.5	25.5	26.0	29.0	26.0	27.5	22.0	21.0	21.5
19	26.0	24.0	24.5	26.5	26.0	26.0	27.0	25.0	26.0	23.0	21.5	22.0
20	25.5	24.5	25.0	27.0	26.0	26.5	25.0	24.5	25.0	23.5	23.0	23.0
21	25.5	24.5	25.0	28.5	26.5	27.5	25.0	24.5	24.5	23.0	21.5	22.0
22	26.5	25.0	25.5	28.0	26.0	27.0	25.5	24.0	24.5	22.0	21.0	21.5
23	26.0	25.0	25.5	26.5	24.5	25.5	25.0	24.0	24.5	21.5	20.5	21.0
24	26.5	25.0	26.0	28.0	26.5	26.5	24.5	24.0	24.0	21.0	20.5	21.0
25	26.5	25.5	26.0	27.0	26.5	27.0	25.5	24.0	25.0	21.0	20.5	21.0
26	26.5	25.5	26.0	28.5	26.5	27.5	26.0	24.5	25.0	23.0	21.0	22.0
27	26.5	25.5	26.0	28.0	26.5	27.0	25.0	25.0	---	22.0	21.0	22.0
28	26.5	25.5	26.0	28.0	26.0	26.5	---	---	---	23.0	21.0	22.0
29	27.0	25.0	26.0	27.0	26.0	26.5	---	---	---	22.0	22.0	---
30	26.5	25.0	25.5	28.0	26.5	27.0	---	---	---	---	---	---
31	---	---	---	28.5	27.0	28.0	---	---	---	---	---	---
MONTH	27.0	19.5	23.5	28.5	23.0	26.0	31.0	24.0	27.5	24.0	17.0	21.0

DELAWARE RIVER BASIN

01475000 MANTUA CREEK AT PITMAN, N. J.

LOCATION.--Lat 39°44'14", long 75°06'53", Gloucester County, 0.6 mi (1.0 km) downstream from gaging station at bridge on Delsea Drive, 0.6 mi (1.0 km) downstream from Wadsworth Dam, and 1.4 mi (2.3 km) upstream from Porch Branch.

DRAINAGE AREA.--6.05 mi² (15.67 km²) (at gaging station).

PERIOD OF RECORD.--Chemical analyses: July to September 1975.

REMARKS.--Miscellaneous chemical samples collected during water years 1958-59, 62.

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	TEMPERATURE (DEG C)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	DISSOLVED OXYGEN (MG/L)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L)	FECAL COLIFORM (EC BROTH) (MPN)	FECAL COLIFORM (COL. PER 100 ML)	TURBIDITY (JTU)	COLOR (PLATINUM-COBALT UNITS)	TOTAL ORGANIC NITROGEN (N) (MG/L)
JULY 23...	1040	19	25.0	80	6.7	7.7	2.5	230	9900	5	39	.45
AUG. 27...	1300	15	24.3	104	7.3	7.3	2.5	230	40	4	17	.23
SEP. 10...	1115	11	17.3	124	6.0	9.4	1.6	<20	50	4	1	.19

DATE	AMMONIA NITROGEN (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL ORTHO PHOSPHORUS (P) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)	ALKALINITY AS CACO3 (MG/L)	CARBONATE (CO3) (MG/L)	BICARBONATE (HCO3) (MG/L)
JULY 23...	.04	.01	.77	.49	1.3	.06	.01	6.5	12	0	15
AUG. 27...	.02	.01	.84	.25	1.1	.03	.01	9.4	16	0	20
SEP. 10...	.00	.01	1.9	.19	2.1	.01	.01	3.6	16	0	20

DATE	CARBON DIOXIDE (CO2) (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	TOTAL NONFILTRABLE RESIDUE (MG/L)
JULY 23...	4.0	30	10	7.0	3.0	3.2	2.4	4.3	11	62	1
AUG. 27...	1.6	30	14	6.2	3.6	3.4	2.2	6.6	12	69	8
SEP. 10...	--	36	20	9.2	3.2	4.3	2.5	5.2	14	62	10

01475030 MONONGAHELA BROOK AT WENONAH, N. J.

LOCATION.--Lat 39°47'09", long 75°08'24", Gloucester County, at bridge on Glassboro Road, 1.3 mi (2.1 km) north of Sewell, and 0.6 mi (1.0 km) southeast of Wenonah Municipal building.

DRAINAGE AREA.--3.11 mi² (8.05 km²).

PERIOD OF RECORD.--Chemical analyses: June to September 1975.

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	DIS-SOLVED OXYGEN (MG/L)	BIO-CHEM-ICAL OXYGEN DEMAND 5 DAY (MG/L)	FECAL COLI-FORM (EC BROTH) (MPN)	FECAL COLI-FORM (COL. PER 100 ML)	TUR-BID-ITY (JTU)	COLOR (PLAT-INUM-COBALT UNITS)	TOTAL ORGANIC NITRO-GEN (N) (MG/L)
JUNE 26...	1420	17.6	145	6.2	8.4	1.2	>2400	6600	19	7	.27
JULY 23...	0945	22.3	156	6.5	6.7	2.4	220	10200	10	8	.33
AUG. 28...	1410	22.0	216	—	7.2	6.4	2400	150	7	2	.96
SEP. 10...	0930	16.2	232	5.9	8.0	2.4	80	40	8	4	.33

DATE	AMMONIA NITRO-GEN (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	TOTAL ORTHO PHOS-PHORUS (P) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	CAR-BONATE (CO3) (MG/L)	BICAR-BONATE (HCO3) (MG/L)
JUNE 26...	.22	.02	1.9	.49	2.4	.20	.02	6.3	7	0	8
JULY 23...	.35	.04	1.8	.68	2.5	.12	.03	5.3	20	0	24
AUG. 28...	.14	.05	2.5	1.1	3.6	.05	.02	6.8	10	--	12
SEP. 10...	.17	.05	2.7	.50	3.2	.01	.01	3.5	13	0	16

DATE	CARBON DIOXIDE (CO2) (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	TOTAL NON-FILT-RABLE RESIDUE (MG/L)
JUNE 26...	8.1	40	33	11	3.0	7.4	4.7	18	23	111	34
JULY 23...	12	51	31	12	5.1	12	5.7	25	16	147	1
AUG. 28...	--	53	43	13	5.0	12	4.9	27	16	101	19
SEP. 10...	--	53	40	13	5.0	14	5.4	30	16	130	18

01475045 MANTUA CREEK AT MANTUA, N. J.

LOCATION.--Lat 39°47'42", long 75°10'21", Gloucester County, at bridge on State Route 45, 2.4 mi (3.9 km) northwest of Barnsboro, and 1.3 mi (2.1 km) east of Gates of Heaven Memorial Park.

DRAINAGE AREA.--41.5 mi² (107.5 km²).

PERIOD OF RECORD.--Chemical analyses: June to September 1975.

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	DIS-SOLVED OXYGEN (MG/L)	BIO-CHEM-ICAL OXYGEN DEMAND 5 DAY (MG/L)	FECAL COLI-FORM (EC BROTH) (MPN)	FECAL COLI-FORM (COL. PER 100 ML)	TUR-BID-ITY (JTU)	COLOR (PLAT-INUM-COBALT UNITS)	TOTAL ORGANIC NITRO-GEN (N) (MG/L)
JUNE 26...	1345	22.4	196	7.0	7.8	2.2	>2400	6100	8	6	.43
JULY 23...	0820	22.0	144	6.2	7.5	1.0	460	--	15	41	.50
AUG. 28...	1310	24.9	184	--	8.1	2.3	2400	520	7	20	.89
SEP. 18...	0830	15.0	223	6.0	8.2	.9	2400	530	10	10	.32

DATE	AMMONIA NITRO-GEN (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	TOTAL ORTHO PHOS-PHORUS (P) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	CAR-BONATE (CO3) (MG/L)	BICAR-BONATE (HCO3) (MG/L)
JUNE 26...	.06	.02	.98	.49	1.5	.28	.05	5.7	39	0	47
JULY 23...	.11	.03	.81	.61	1.5	.35	.07	7.4	34	0	41
AUG. 28...	.02	.02	.98	.91	1.9	.12	.03	10	35	--	43
SEP. 18...	.04	.01	1.1	.36	1.5	.04	.02	6.2	43	0	53

DATE	CARBON DIOXIDE (CO2) (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	TOTAL NON-FILT-RABLE RESIDUE (MG/L)
JUNE 26...	7.5	42	3	12	2.9	12	2.7	14	24	142	38
JULY 23...	41	39	5	10	3.3	12	3.4	10	20	106	3
AUG. 28...	--	52	17	15	3.6	12	3.2	15	18	115	28
SEP. 18...	--	55	12	17	3.1	17	3.0	14	21	110	33

01477050 DELAWARE RIVER AT CHESTER, PA.

LOCATION.--Lat 39°50'12", long 75°22'00", Delaware County, water-quality recorder located at auxiliary tidal-gaging station at end of Reynolds Aluminum Company pier, 0.5 mi (0.8 km) downstream from Chester Creek, in Chester.

DRAINAGE AREA.--10,300 mi² (26,700 km²).

PERIOD OF RECORD.--Chemical analyses: December 1961 to September 1975.
Water temperatures: December 1961 to September 1975.

EXTREMES.--1974-75:
Specific conductance: Maximum, 557 micromhos Nov. 11; minimum, 168 micromhos, Mar. 4.
Dissolved oxygen: Maximum, 10.6 mg/l Jan. 10; minimum, 0.0 mg/l Sept. 5.
Water temperatures: Maximum, 29.5°C Aug. 3, minimum, 3.0°C Jan. 24.
pH: Maximum, 8.5 May 27; minimum, 6.0 Sept. 24, 27.
Period of record:
Specific conductance: Maximum, 5,900 micromhos Oct. 7, 1965; minimum, 98 micromhos July 4, 1973.
Dissolved oxygen: Maximum, 13.7 mg/l Jan. 10, 1973; minimum, 0.0 mg/l on many days.
Water temperatures: Maximum, 30.0°C July 13, 14, 1966, Apr. 3, 4, 1967, Aug. 4, 1968; minimum, freezing point on many days during winter months.
pH (1968-75): Maximum, 8.7 Sept. 13, 14, 1971; minimum, 5.5 Dec. 10, 11, 1969, Oct. 6 and Dec. 1, 1972.

REMARKS.--Missing continuous water-quality records are the result of malfunction of sensor or sampling mechanism.

SPECIFIC CONDUCTANCE (MICROMHOS AT 25°C), WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	320	298	308	356	342	347	471	443	452	---	---	---
2	310	298	304	370	348	359	478	449	---	---	---	---
3	306	288	296	408	388	397	---	---	---	---	---	---
4	308	298	---	404	366	384	---	---	---	---	---	---
5	302	292	---	417	362	384	---	---	---	---	---	---
6	---	---	---	405	369	384	---	---	---	---	---	---
7	316	300	---	405	379	388	---	---	---	---	---	---
8	312	296	304	417	375	390	---	---	---	---	---	---
9	312	298	304	497	381	408	---	---	---	---	---	---
10	302	302	---	529	383	451	448	431	---	---	---	---
11	---	---	---	557	367	465	438	409	425	---	---	---
12	306	298	---	533	341	426	446	421	433	---	---	---
13	314	298	---	457	339	398	481	445	---	289	284	---
14	368	316	336	391	383	---	481	435	457	317	275	288
15	352	316	332	---	---	---	497	409	428	281	256	273
16	322	270	306	---	---	---	429	381	412	272	257	265
17	312	276	---	---	---	---	403	365	382	268	257	262
18	---	---	---	379	351	---	467	395	424	265	253	259
19	---	---	---	381	345	368	451	403	421	249	237	243
20	---	---	---	375	338	356	449	395	413	246	238	242
21	---	---	---	365	331	348	451	391	422	247	233	235
22	---	---	---	351	323	339	445	393	420	263	231	244
23	---	---	---	---	---	---	475	421	442	251	234	---
24	406	388	---	---	---	---	471	435	451	317	263	---
25	408	384	391	---	---	---	465	429	449	303	265	284
26	404	384	390	489	456	---	479	427	457	307	271	288
27	400	382	389	482	442	465	485	437	453	321	275	295
28	400	382	389	476	463	---	487	427	460	313	285	299
29	394	366	386	469	450	462	487	453	472	309	291	301
30	360	332	344	468	437	452	493	465	---	307	287	296
31	350	336	342	---	---	---	---	---	---	295	281	288
MONTH	---	---	---	557	323	---	---	---	---	---	---	---

01477050 DELAWARE RIVER AT CHESTER, PA.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS AT 25°C), WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	297	281	290	---	---	---	254	238	239	275	271	273
2	303	295	299	---	---	---	250	200	---	276	271	273
3	305	299	301	---	---	---	---	---	---	276	271	274
4	303	283	296	208	168	---	---	---	---	278	272	275
5	301	293	296	204	172	185	---	---	---	276	271	274
6	339	303	316	198	170	187	---	---	---	286	273	---
7	345	299	319	212	178	194	---	---	---	---	---	---
8	317	293	305	216	184	201	---	---	---	295	282	---
9	317	291	304	224	194	205	---	---	---	284	277	281
10	313	291	302	220	190	206	---	---	---	289	273	277
11	321	283	303	236	200	216	344	330	---	279	268	271
12	311	289	301	244	212	227	340	320	332	272	266	269
13	355	297	313	260	220	240	356	320	328	271	248	251
14	365	305	329	254	220	239	338	320	---	245	238	239
15	353	307	327	268	236	251	---	---	---	240	238	236
16	353	311	328	262	246	253	---	---	---	233	220	226
17	365	315	340	288	250	267	---	---	---	290	225	267
18	377	335	351	296	268	283	---	---	---	269	221	239
19	377	349	361	300	260	288	---	---	---	270	217	234
20	371	349	359	294	250	275	---	---	---	228	217	220
21	375	357	366	280	256	270	---	---	---	226	219	223
22	373	357	365	264	246	255	---	---	---	228	210	221
23	365	353	359	264	256	259	---	---	---	250	219	229
24	368	338	353	---	---	---	---	---	---	301	254	275
25	---	---	---	---	---	---	---	---	---	315	302	307
26	---	---	---	---	---	---	---	---	---	301	251	272
27	---	---	---	236	210	---	---	---	---	283	258	272
28	---	---	---	238	208	218	281	271	---	276	266	---
29	---	---	---	238	206	220	281	272	277	---	---	---
30	---	---	---	246	200	226	278	269	274	---	---	---
31	---	---	---	250	210	232	---	---	---	---	---	---
MONTH	377	281	324	300	168	---	---	---	---	315	217	---

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	283	267	---	272	263	266	369	354	361
2	235	224	---	284	268	277	281	264	273	369	355	361
3	---	---	---	279	270	274	302	279	288	367	359	363
4	260	248	258	277	265	270	278	268	273	373	361	367
5	275	254	265	274	257	266	---	---	---	375	363	369
6	270	252	261	275	258	265	---	---	---	386	365	376
7	264	257	261	290	276	285	325	314	---	388	366	376
8	270	257	261	322	291	304	325	312	319	396	370	382
9	279	267	271	323	300	317	328	318	323	408	372	388
10	280	263	272	330	314	322	320	318	324	420	375	393
11	266	256	262	323	283	312	330	317	324	429	377	---
12	264	248	257	---	---	---	327	316	323	---	---	---
13	255	232	243	292	284	---	328	322	326	---	---	---
14	248	234	244	---	---	---	335	326	329	---	---	---
15	243	233	238	---	---	---	339	326	331	---	---	---
16	250	233	---	---	---	---	334	328	332	---	---	---
17	243	233	---	---	---	---	335	330	---	---	---	---
18	244	228	---	276	268	---	366	319	343	498	407	---
19	253	226	235	272	269	---	344	329	337	515	396	450
20	250	227	237	---	---	---	344	329	338	509	398	449
21	248	224	238	---	---	---	349	335	341	474	391	430
22	248	235	241	---	---	---	355	341	346	459	387	422
23	253	238	244	251	236	244	351	342	346	449	350	402
24	253	248	---	251	240	246	349	345	---	404	321	355
25	---	---	---	---	---	---	---	---	---	353	282	325
26	251	249	---	---	---	---	353	346	---	302	246	273
27	260	253	---	---	---	---	355	347	352	251	228	241
28	---	---	---	---	---	---	356	350	353	226	204	215
29	---	---	---	272	262	---	363	352	357	214	200	205
30	---	---	---	271	262	266	366	358	360	207	196	202
31	---	---	---	271	259	266	365	358	360	---	---	---
MONTH	280	224	---	---	---	---	366	263	---	515	196	---

01477050 DELAWARE RIVER AT CHESTER, PA.--Continued

DISSOLVED OXYGEN (DO), IN MILLIGRAMS PER LITER, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	2.7	1.5	2.1	1.6	1.2	1.4				---	---	---
2	2.7	1.5	2.1	1.4	1.0	1.1				---	---	---
3	2.8	1.8	2.2	1.2	.8	1.0				---	---	---
4	3.0	1.9	---	1.1	.9	.9				---	---	---
5	2.9	2.2	---	1.1	.8	.9				---	---	---
6	---	---	---	1.3	.8	.9				---	---	---
7	2.2	1.9	---	1.2	.9	1.0				---	---	---
8	2.6	1.8	2.1	1.7	1.1	1.3				---	---	---
9	2.5	1.7	2.0	2.4	1.4	1.9				---	---	---
10	1.8	1.0	---	2.5	1.7	2.0				---	---	---
11	---	---	---	3.0	1.4	2.2				---	---	---
12	1.8	1.5	---	3.5	2.0	2.9				---	---	---
13	1.9	1.4	---	3.6	3.1	3.4				8.6	7.8	---
14	1.7	1.2	1.4	3.6	3.4	---				10.0	8.4	9.1
15	2.4	1.2	1.6	---	---	---				10.2	9.2	9.7
16	3.3	1.7	2.5	---	---	---				10.6	9.6	10.1
17	3.2	2.0	---	---	---	---				---	---	---
18	---	---	---	3.5	3.4	---				---	---	---
19	---	---	---	3.5	3.1	3.3				---	---	---
20	---	---	---	3.3	2.8	3.1				---	---	---
21	---	---	---	3.3	2.8	3.1				---	---	---
22	---	---	---	3.8	3.1	3.5				---	---	---
23	---	---	---	---	---	---				---	---	---
24	4.0	3.9	---	---	---	---				10.2	9.9	---
25	4.1	3.7	4.0	---	---	---				10.0	8.6	9.4
26	4.0	3.7	3.8	---	---	---				10.2	9.5	9.8
27	4.0	3.4	3.7	---	---	---				10.4	9.9	10.2
28	3.9	3.5	3.7	---	---	---				10.3	9.9	10.1
29	3.6	2.9	3.2	---	---	---				10.1	9.7	9.9
30	3.0	1.7	2.2	---	---	---				10.2	9.7	10.0
31	1.9	1.5	1.7	---	---	---				10.1	9.8	10.0
MONTH	---	---	---	---	---	---				---	---	---

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	10.0	9.6	9.7	---	---	---	8.8	8.2	8.4	5.0	4.3	4.6
2	9.9	9.3	9.6	---	---	---	8.4	8.1	---	4.7	3.9	4.4
3	9.8	9.3	9.5	---	---	---	---	---	---	4.6	4.0	4.2
4	10.0	9.4	9.6	10.1	9.0	---	---	---	---	4.5	4.0	4.2
5	10.2	9.5	9.8	10.1	9.0	9.6	---	---	---	4.6	4.1	4.3
6	10.0	9.3	9.6	9.5	8.9	9.2	---	---	---	4.3	4.1	---
7	9.7	9.2	9.4	9.1	8.6	8.9	---	---	---	---	---	---
8	9.8	9.4	9.6	9.1	8.7	8.9	---	---	---	4.3	3.8	---
9	9.8	9.3	9.5	9.1	8.7	8.9	---	---	---	4.4	3.8	4.0
10	9.7	9.2	9.4	8.8	8.2	8.5	---	---	---	4.3	3.8	4.0
11	9.6	9.0	9.3	8.7	8.2	8.5	8.4	8.3	---	4.4	3.7	4.0
12	9.6	8.9	9.2	8.6	8.3	8.5	8.4	8.1	---	4.3	3.2	3.7
13	10.1	9.1	9.4	8.4	8.1	8.3	---	---	---	4.4	3.2	3.5
14	10.2	9.3	9.7	8.8	8.2	8.5	---	---	---	4.2	3.6	3.8
15	10.0	9.3	9.6	9.1	8.6	8.8	7.8	7.4	7.6	4.2	3.9	4.1
16	9.7	9.2	9.4	8.8	8.3	8.5	7.5	7.2	7.4	4.2	4.1	4.2
17	9.5	9.1	9.2	8.3	7.9	8.1	7.5	7.1	7.3	4.5	4.0	4.2
18	9.3	8.6	8.9	8.1	7.7	7.9	7.3	6.9	7.1	4.4	4.0	4.2
19	8.8	8.2	8.5	8.1	7.6	7.8	7.0	6.7	---	4.1	3.4	3.7
20	8.9	8.2	8.5	8.7	7.7	8.4	---	---	---	3.5	3.2	3.4
21	8.9	8.1	8.4	8.7	8.1	8.3	---	---	---	3.4	3.2	3.3
22	8.7	8.0	8.3	8.3	8.0	8.2	7.1	6.5	6.8	3.3	3.1	3.2
23	8.4	7.5	8.0	8.1	7.8	7.9	6.7	6.1	6.5	3.2	2.8	3.1
24	8.8	7.6	8.1	---	---	---	6.7	6.0	6.3	3.1	2.8	2.9
25	---	---	---	---	---	---	6.5	5.9	6.2	3.1	2.7	2.9
26	---	---	---	---	---	---	6.4	5.9	---	3.1	1.9	2.7
27	---	---	---	8.7	8.5	---	---	---	---	3.0	2.5	2.7
28	---	---	---	8.7	8.3	8.5	5.3	5.3	---	2.9	2.8	2.9
29	---	---	---	8.4	7.9	8.2	5.2	4.8	5.0	2.9	2.8	---
30	---	---	---	8.0	7.5	7.8	5.0	4.7	4.8	---	---	---
31	---	---	---	8.9	7.5	8.2	---	---	---	---	---	---
MONTH	10.2	7.5	9.2	10.1	7.5	---	---	---	---	5.0	1.9	3.7

DELAWARE RIVER BASIN

01477050 DELAWARE RIVER AT CHESTER, PA.--Continued

DISSOLVED OXYGEN (DO), IN MILLIGRAMS PER LITER, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1							---	---	---	4.0	3.1	3.8
2							---	---	---	4.6	3.3	3.9
3							---	---	---	3.8	2.5	3.0
4							---	---	---	2.9	1.7	2.2
5							---	---	---	2.8	0	1.9
6							---	---	---	2.6	1.4	2.1
7							2.7	2.1	---	1.8	.9	1.3
8							4.0	1.9	2.8	1.4	.7	1.0
9							4.1	2.4	3.3	1.1	.7	.9
10							3.6	2.7	3.2	1.0	.5	.8
11							3.5	2.4	2.8	1.4	.5	.8
12							3.3	2.4	2.8	2.3	1.1	1.7
13							3.3	2.4	2.6	1.7	1.1	1.6
14							2.8	1.8	2.2	1.9	.9	1.4
15							2.2	1.2	1.6	---	---	---
16							1.3	.4	1.0	---	---	---
17							2.4	.1	1.1	---	---	---
18							2.7	.7	1.5	3.4	2.3	---
19							3.0	1.1	1.7	2.9	2.0	2.5
20							2.9	1.0	1.8	2.0	1.5	1.7
21							3.0	1.1	2.0	1.6	1.0	1.3
22							3.3	1.4	2.2	1.0	.5	.7
23							3.0	1.3	2.1	2.7	.4	1.1
24							2.3	1.5	---	3.6	1.2	2.5
25							---	---	---	5.1	3.3	4.2
26							2.8	1.2	---	5.2	4.6	4.9
27							2.2	.7	1.5	6.1	5.0	5.7
28							2.9	1.2	1.7	6.7	5.6	6.2
29							2.9	.8	1.5	6.5	5.8	6.1
30							2.7	.7	1.5	5.8	4.6	5.2
31							3.6	1.6	2.6	---	---	---
MONTH							---	---	---	6.7	0	2.6

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	20.5	20.0	20.5	15.5	15.0	15.0	8.5	6.5	7.0	---	---	---
2	20.0	19.5	20.0	15.5	15.0	15.5	9.0	6.5	7.5	---	---	---
3	19.5	18.5	19.0	16.0	15.0	15.5	7.0	6.0	6.5	---	---	---
4	19.0	18.0	---	16.0	15.0	15.5	6.5	5.5	6.0	---	---	---
5	18.5	18.0	---	16.5	15.5	16.0	6.5	5.0	5.5	---	---	---
6	---	---	---	16.0	15.5	16.0	6.5	5.0	6.0	---	---	---
7	18.5	18.0	---	16.0	15.0	15.5	7.0	5.5	6.0	---	---	---
8	18.5	18.0	18.0	15.5	14.5	15.0	7.0	5.5	6.0	---	---	---
9	18.5	17.0	18.0	15.0	14.5	15.0	8.0	6.5	7.5	---	---	---
10	18.0	18.0	---	15.0	14.0	14.5	8.0	5.5	6.5	---	---	---
11	---	---	---	14.5	14.0	14.0	6.0	4.5	5.5	---	---	---
12	18.5	18.0	---	14.0	13.5	13.5	6.5	5.5	6.0	---	---	---
13	18.0	18.0	---	14.0	13.0	13.5	7.0	6.0	6.5	7.0	6.5	---
14	19.0	17.0	18.0	13.5	13.0	---	7.0	6.5	6.5	7.0	5.0	6.0
15	18.5	18.0	18.0	---	---	---	6.5	6.0	6.0	6.5	5.0	---
16	18.0	16.5	17.5	---	---	---	8.0	6.0	7.0	6.0	4.5	5.0
17	17.0	16.5	---	---	---	---	7.0	6.0	6.5	5.5	4.5	5.0
18	---	---	---	13.0	12.0	---	6.0	5.5	5.5	5.0	4.0	4.5
19	---	---	---	13.0	12.0	12.5	6.0	5.0	5.5	5.0	4.0	4.5
20	---	---	---	13.0	12.0	12.0	6.5	5.5	6.0	5.0	4.0	4.5
21	---	---	---	13.5	12.0	12.5	6.5	5.5	6.0	5.0	4.0	4.5
22	---	---	---	12.0	11.5	12.0	6.0	5.5	6.0	4.5	4.0	---
23	---	---	---	---	---	---	6.5	5.5	6.0	5.0	4.0	---
24	15.0	14.0	---	---	---	---	6.0	5.5	6.0	5.0	3.0	4.5
25	15.0	14.0	14.5	---	---	---	6.5	5.5	6.0	6.0	4.5	5.0
26	14.5	14.0	14.0	9.0	7.0	---	6.5	5.5	6.0	5.0	4.5	4.5
27	15.0	14.0	14.5	9.0	6.5	8.0	6.0	5.5	5.5	5.0	4.0	4.5
28	14.5	14.0	14.5	8.5	8.0	---	5.5	5.0	5.5	6.0	4.0	5.0
29	15.0	14.5	14.5	8.0	7.0	7.5	6.0	5.0	5.5	6.0	4.5	5.5
30	15.0	14.5	15.0	8.0	6.0	7.0	6.0	5.5	---	6.0	5.0	5.5
31	15.5	14.5	15.0	---	---	---	---	---	---	6.0	5.0	5.5
MONTH	---	---	---	16.5	6.0	---	9.0	4.5	6.0	---	---	---

01477050 DELAWARE RIVER AT CHESTER, PA.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	6.0	5.0	5.5	---	---	---	10.5	9.0	9.5	14.5	14.0	14.5
2	6.0	5.0	5.5	---	---	---	11.0	9.5	---	14.5	14.0	14.5
3	6.0	5.0	5.5	5.5	4.5	---	---	---	---	15.5	14.0	15.0
4	5.5	5.0	5.0	5.5	4.0	4.5	---	---	---	15.5	14.5	15.0
5	5.5	5.0	5.0	9.0	4.5	6.0	---	---	---	15.0	14.5	14.5
6	6.0	5.0	5.5	7.0	5.0	6.0	---	---	---	15.5	14.5	---
7	5.5	4.5	5.0	8.0	6.0	7.0	---	---	---	---	---	---
8	5.0	4.5	4.5	7.0	5.0	6.5	---	---	---	16.5	15.5	---
9	5.0	4.5	4.5	6.0	4.0	5.0	---	---	---	16.5	15.5	16.0
10	5.0	3.5	4.5	5.5	5.0	5.0	---	---	---	16.5	16.0	16.5
11	5.0	4.0	4.5	5.5	5.0	5.5	7.0	6.5	---	17.0	16.0	16.5
12	5.0	3.5	4.0	6.0	5.0	5.5	6.5	6.0	---	18.0	16.5	17.0
13	5.0	3.5	4.0	7.0	5.5	6.5	---	---	---	18.5	17.0	18.0
14	4.5	3.5	4.0	6.0	5.0	5.5	7.0	6.5	---	19.0	18.0	18.5
15	4.5	3.5	4.0	6.0	5.0	5.5	7.0	6.0	6.5	19.5	18.0	19.0
16	4.5	3.5	4.0	6.5	5.0	6.0	8.0	6.0	7.0	19.5	18.5	19.0
17	4.5	4.0	4.0	7.0	5.5	6.5	8.5	6.5	7.5	20.0	18.5	19.0
18	5.0	4.0	5.0	8.0	6.0	7.5	9.0	7.0	8.5	20.0	19.0	19.5
19	6.0	5.0	5.5	9.0	7.0	8.0	9.0	9.0	---	20.5	19.5	20.0
20	6.0	5.0	5.5	9.5	8.5	9.5	---	---	---	21.5	20.0	20.5
21	7.0	5.5	6.0	11.0	9.0	10.0	12.0	11.0	---	22.0	20.5	21.0
22	7.0	5.5	6.5	11.5	10.0	---	12.0	11.0	11.5	23.0	21.0	22.0
23	8.5	6.5	7.5	11.5	10.5	11.0	13.5	11.5	12.5	23.0	21.0	22.0
24	10.0	8.0	8.5	---	---	---	13.5	12.0	12.5	23.5	22.0	23.0
25	---	---	---	---	---	---	13.5	12.0	12.5	23.0	21.5	22.5
26	---	---	---	---	---	---	---	---	---	22.0	21.5	22.0
27	---	---	---	9.0	9.0	---	---	---	---	23.5	22.0	22.5
28	---	---	---	9.0	8.0	8.5	14.5	14.0	---	23.5	22.0	23.0
29	---	---	---	9.5	8.5	9.0	14.5	14.0	14.0	23.5	23.0	---
30	---	---	---	10.5	9.0	10.0	15.0	14.0	14.5	---	---	---
31	---	---	---	10.5	9.0	10.0	---	---	---	---	---	---
MONTH	10.0	3.5	5.0	11.5	4.0	---	---	---	---	23.5	14.0	19.0

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	25.5	25.0	---	28.5	26.5	27.5	26.0	25.5	25.5
2	24.5	23.5	---	26.0	24.5	25.5	29.0	27.0	27.5	26.0	25.0	25.5
3	---	---	---	26.0	25.0	25.5	29.5	28.0	28.5	26.0	25.0	25.5
4	24.5	23.5	24.0	26.0	25.0	25.5	29.0	27.0	28.5	26.0	25.0	25.5
5	24.0	23.0	23.5	26.0	25.0	25.5	---	---	---	26.0	25.0	25.5
6	24.0	23.0	23.5	25.5	25.0	25.5	---	---	---	25.5	25.0	25.5
7	23.5	22.0	23.5	25.0	24.5	24.5	---	---	---	25.5	25.0	25.5
8	23.0	22.0	22.5	24.5	23.5	24.0	---	---	---	25.5	25.0	25.5
9	23.0	22.0	22.5	24.5	23.5	24.0	---	---	---	25.5	24.0	25.0
10	23.5	22.0	23.0	24.5	23.5	24.0	---	---	---	24.5	24.0	24.0
11	23.0	21.5	22.5	24.5	24.0	24.0	27.0	27.0	---	24.5	24.0	24.0
12	22.0	21.0	21.5	---	---	---	27.0	26.5	27.0	24.5	23.5	24.0
13	22.0	21.0	21.5	24.5	24.0	---	28.0	27.0	27.0	23.5	23.0	23.5
14	22.0	21.5	21.5	---	---	---	27.0	27.0	27.0	23.5	22.0	22.5
15	23.0	21.5	22.0	---	---	---	28.0	27.0	27.0	23.0	21.5	22.5
16	23.0	21.5	22.0	---	---	---	27.0	26.5	27.0	---	---	---
17	22.0	21.5	---	---	---	---	27.0	26.5	26.5	---	---	---
18	24.0	23.0	---	25.0	24.5	---	27.0	26.0	26.5	23.0	22.0	---
19	24.0	23.5	23.5	24.5	24.0	---	27.0	26.0	26.5	23.0	22.0	22.5
20	24.0	23.5	23.5	---	---	---	27.0	26.0	26.5	23.5	22.0	23.0
21	25.0	23.5	24.0	---	---	---	26.5	26.0	26.0	23.0	23.0	23.0
22	24.5	23.5	24.0	---	---	---	26.5	26.0	26.0	23.0	22.0	22.5
23	24.5	24.0	---	26.5	25.5	26.0	27.0	26.0	26.5	22.0	21.0	21.5
24	25.5	24.5	---	26.5	26.0	---	27.0	26.0	---	21.5	20.5	21.0
25	---	---	---	---	---	---	---	---	---	20.5	20.0	20.5
26	25.0	25.0	---	---	---	---	29.0	28.5	---	20.5	20.0	20.0
27	25.0	24.5	---	---	---	---	29.0	28.0	28.5	20.0	19.5	20.0
28	---	---	---	---	---	---	28.5	28.0	28.0	19.5	19.0	19.0
29	---	---	---	26.5	26.0	---	29.0	28.0	28.5	19.5	18.5	19.0
30	---	---	---	27.0	26.0	26.5	28.5	28.0	28.0	19.5	19.0	19.0
31	---	---	---	28.0	26.0	26.5	27.0	26.0	26.5	---	---	---
MONTH	25.5	21.0	---	---	---	---	---	---	---	26.0	18.5	23.0

DELAWARE RIVER BASIN

01477050 DELAWARE RIVER AT CHESTER, PA.--Continued

pH (UNITS), WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	6.9	6.5	6.7	---	---	---	---	---	---	---	---	---
2	6.8	6.5	6.7	---	---	---	7.1	6.5	---	---	---	---
3	6.7	6.5	6.6	---	---	---	6.9	6.6	6.8	---	---	---
4	6.6	6.5	---	---	---	---	6.8	6.7	6.8	---	---	---
5	6.6	6.5	---	---	---	---	6.8	6.7	6.7	---	---	---
6	---	---	---	6.7	6.5	---	7.0	6.7	6.7	---	---	---
7	6.6	6.3	---	6.6	6.6	6.6	6.7	6.7	6.7	---	---	---
8	6.6	6.4	6.5	6.6	6.4	6.5	6.7	6.6	6.7	---	---	---
9	6.6	6.5	6.5	6.5	6.2	6.4	6.7	6.7	---	---	---	---
10	6.5	6.5	---	6.5	6.1	6.3	6.9	6.8	---	---	---	---
11	---	---	---	6.4	6.2	---	7.0	6.9	6.9	---	---	---
12	6.5	6.4	---	---	---	---	7.2	6.9	6.9	---	---	---
13	6.5	6.4	---	---	---	---	6.7	6.5	---	6.6	6.7	---
14	6.5	6.4	6.5	---	---	---	6.5	6.2	6.4	7.1	6.7	---
15	6.9	6.4	6.6	---	---	---	6.6	6.2	6.3	7.0	6.8	6.9
16	6.6	6.5	6.6	---	---	---	6.2	6.1	---	7.1	6.9	7.0
17	6.6	6.5	---	---	---	---	6.6	6.3	---	7.0	6.9	6.9
18	---	---	---	6.2	6.1	---	6.8	6.5	6.7	7.1	6.9	7.0
19	---	---	---	6.2	6.1	6.2	6.8	6.6	6.7	6.9	6.7	6.9
20	---	---	---	6.4	6.1	6.2	6.8	6.6	6.7	6.8	6.7	6.8
21	---	---	---	6.5	6.2	---	6.8	6.7	6.7	6.8	6.7	6.7
22	---	---	---	6.3	6.1	6.2	6.7	6.6	6.7	7.0	6.6	6.7
23	---	---	---	---	---	---	6.7	6.5	6.6	7.3	6.8	7.0
24	---	---	---	---	---	---	6.7	6.5	6.6	7.3	7.1	---
25	---	---	---	---	---	---	6.7	6.5	6.6	---	---	---
26	---	---	---	---	---	---	6.7	6.5	6.6	---	---	---
27	---	---	---	---	---	---	6.6	6.5	6.6	6.7	6.5	---
28	---	---	---	---	---	---	6.6	6.5	6.6	6.6	6.4	6.6
29	---	---	---	---	---	---	6.7	6.6	6.6	7.3	6.4	6.6
30	---	---	---	---	---	---	6.7	6.6	---	6.7	6.6	6.6
31	---	---	---	---	---	---	---	---	---	6.6	6.5	6.6
MONTH	---	---	---	---	---	---	7.2	6.1	---	---	---	---

DAY	FEBRUARY			MARCH			APRIL			MAY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	6.6	6.5	6.6							---	---	---
2	6.7	6.6	6.6							---	---	---
3	6.7	6.6	6.6							---	---	---
4	6.6	6.5	6.6							---	---	---
5	6.5	6.2	6.4							---	---	---
6	7.0	6.4	6.7							---	---	---
7	7.0	6.8	7.0							---	---	---
8	7.0	6.9	7.0							7.6	7.4	---
9	7.0	6.8	6.9							7.5	7.4	7.5
10	7.1	6.7	6.8							7.5	7.0	7.4
11	6.8	6.7	6.7							7.5	7.3	7.4
12	6.8	6.7	6.7							7.4	7.3	7.3
13	6.8	6.7	6.7							7.3	6.9	7.1
14	7.5	6.7	6.8							7.0	6.9	7.0
15	7.2	6.6	6.7							7.0	6.9	7.0
16	6.7	6.5	6.6							7.0	6.9	6.9
17	7.0	6.6	6.7							7.0	6.9	---
18	7.1	6.9	---							---	---	---
19	---	---	---							7.9	7.6	---
20	---	---	---							8.0	7.8	7.9
21	---	---	---							8.1	7.8	7.9
22	---	---	---							8.0	7.7	7.9
23	---	---	---							8.0	7.6	7.9
24	---	---	---							8.0	7.5	7.7
25	---	---	---							8.1	7.7	7.9
26	---	---	---							8.4	7.5	8.1
27	---	---	---							8.5	6.5	7.4
28	---	---	---							6.6	6.4	6.5
29	---	---	---							---	---	---
30	---	---	---							---	---	---
31	---	---	---							---	---	---
MONTH	---	---	---							---	---	---

01477050 DELAWARE RIVER AT CHESTER, PA.--Continued

pH (UNITS), WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	7.6	7.4	---	7.5	7.3	7.4	6.5	6.3	6.4
2	7.6	7.1	---	7.5	7.4	7.4	7.5	7.2	7.4	6.5	6.2	6.4
3	---	---	---	7.5	7.4	7.4	7.4	7.2	7.3	6.3	6.2	6.3
4	7.3	6.9	7.0	7.5	7.4	7.4	7.4	7.2	---	6.3	6.2	6.2
5	7.1	6.9	7.0	7.5	7.4	7.5	---	---	---	6.3	6.1	6.2
6	7.2	6.9	7.0	7.7	7.6	7.6	---	---	---	6.3	6.2	6.2
7	7.2	6.9	7.0	8.0	7.8	7.9	6.8	6.8	---	6.4	6.1	6.2
8	7.3	7.0	7.1	8.2	7.9	8.0	6.9	6.6	6.8	6.4	6.1	6.2
9	7.3	7.0	7.1	8.1	8.0	8.0	6.9	6.6	6.7	6.4	6.2	6.3
10	7.4	6.6	7.0	8.1	7.9	8.0	6.9	6.5	6.7	6.4	6.2	6.3
11	7.0	6.6	6.8	8.0	7.8	7.9	7.2	6.6	6.8	6.4	6.1	6.2
12	6.9	6.8	6.8	---	---	---	7.1	6.8	6.9	6.5	6.2	6.3
13	7.0	6.9	6.9	---	---	---	7.1	6.7	6.9	6.4	6.1	6.2
14	7.0	6.8	6.9	---	---	---	7.2	6.7	7.0	6.3	6.1	6.2
15	6.9	6.7	6.8	---	---	---	7.2	6.9	7.1	6.3	6.1	6.2
16	6.8	6.7	---	---	---	---	6.9	6.8	6.9	---	---	---
17	7.3	7.3	---	---	---	---	6.8	6.6	6.7	---	---	---
18	7.4	7.2	---	---	---	---	6.8	6.6	6.7	6.8	6.6	---
19	7.4	7.2	7.3	---	---	---	6.9	6.7	6.8	6.8	6.6	6.7
20	7.4	7.2	7.3	---	---	---	7.0	6.7	6.8	6.8	6.6	6.7
21	7.3	7.2	7.2	---	---	---	6.9	6.7	6.8	6.8	6.5	6.6
22	7.3	7.0	7.2	---	---	---	6.9	6.8	6.9	6.6	6.4	6.5
23	7.2	7.1	---	---	---	---	7.1	6.8	7.0	6.5	6.1	6.3
24	7.5	7.4	---	---	---	---	7.1	7.0	---	6.2	6.0	6.1
25	---	---	---	---	---	---	---	---	---	6.4	6.1	6.3
26	7.3	7.2	---	---	---	---	6.6	6.5	---	6.5	6.2	6.4
27	7.2	7.0	---	---	---	---	6.6	6.4	6.5	6.5	6.0	6.3
28	---	---	---	---	---	---	6.5	6.3	6.4	6.4	6.1	6.3
29	---	---	---	7.5	7.4	---	6.5	6.2	6.4	---	---	---
30	---	---	---	7.6	7.4	7.5	6.4	6.3	6.4	7.0	6.9	---
31	---	---	---	7.6	7.3	7.4	6.5	6.3	6.4	---	---	---
MONTH	7.6	6.6	---	---	---	---	7.5	6.2	---	7.0	6.0	6.3

01477100 RACCOON CREEK NEAR MULLICA HILL, N. J.

LOCATION.--Lat 39°42'31", long 75°12'05", Gloucester County, at bridge on Cedar Grove-Richwood Grove, 0.6 mi (1.0 km) upstream from Miery Run, 1.0 mi (1.6 km) downstream from outflow of Ewan Lake, 2.5 mi (4.0 km) southeast of Mullica Hill, and 4.0 mi (6.4 km) southwest of Pitman.

DRAINAGE AREA.--10.1 mi² (26.2 km²).

PERIOD OF RECORD.--Chemical analyses: July to September 1975.

REMARKS.--Miscellaneous chemical samples collected during water years 1953-55, 59-63.

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	DIS-SOLVED OXYGEN (MG/L)	BIO-CHEM-ICAL OXYGEN DEMAND 5 DAY (MG/L)	FECAL COLI-FORM (EC BROTH) (MPN)	FECAL COLI-FORM (COL. PER 100 ML)	TUR-BID-ITY (JTU)	COLOR (PLAT-INUM-COBALT UNITS)	TOTAL ORGANIC NITRO-GEN (N) (MG/L)
JULY 17...	1440	26.0	77	6.2	6.0	1.4	140	260	8	50	.32
AUG. 27...	1145	24.0	157	7.1	7.6	1.1	230	72	6	10	.10
SEP. 10...	1030	17.0	159	6.1	8.4	1.0	940	88	4	1	.21

DATE	AMMONIA NITRO-GEN (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	TOTAL ORTHO PHOS-PHORUS (P) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	CAR-BONATE (CO3) (MG/L)	BICAR-BONATE (HCO3) (MG/L)
JULY 17...	.13	.01	.07	.45	1.3	.09	.03	6.7	4	0	5
AUG. 27...	.07	.01	1.6	.25	1.9	.03	.01	13	10	0	12
SEP. 10...	.08	.01	1.8	.21	2.0	.03	.01	5.6	11	0	14

DATE	CARBON DIOXIDE (CO2) (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	TOTAL NON-FILT-RABLE RESIDUE (MG/L)
JULY 17...	5.0	29	25	7.8	2.4	1.7	2.7	5.4	17	59	17
AUG. 27...	1.5	44	34	11	4.0	2.7	3.0	7.0	22	84	10
SEP. 10...	10	54	43	16	3.5	2.7	3.3	6.9	25	86	11

01477120 RACCOON CREEK NEAR SWEDESBORO, N. J.

LOCATION.--Lat 39°44'25", long 75°15'34", Gloucester County, at gaging station at county bridge No. 5-F-3, 2.8 mi (4.5 km) east of Swedesboro.

DRAINAGE AREA.--29.9 mi² (77.4 km²).

PERIOD OF RECORD.--Chemical analyses: September 1965 to September 1972 (partial-record station), October 1972 to September 1975.
Water temperatures: May 1966 to September 1973.
Sediment records: June 1966 to September 1969.

REMARKS.--Miscellaneous storm sediment samples collected during water years 1971-73.

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	TEMPERATURE (DEG C)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	DISSOLVED OXYGEN (MG/L)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L)	IMMEDIATE COLIFORM (COL. PER 100 ML)	FECAL COLIFORM (EC BROTH) (MPN)	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)	TURBIDITY (JTU)
OCT. 16...	1300	137	13.4	151	7.2	7.6	7.4	--	--	10500	--	--
NOV. 20...	1130	17	9.0	178	7.4	10.8	1.2	550	--	100	40	--
MAR. 12...	1025	255	5.2	217	7.2	12.4	2.0	--	130	102	--	20
APR. 08...	1210	45	8.0	163	6.8	11.3	1.9	--	33	<5	--	9
MAY 08...	1200	36	16.[illegible]	158	6.4	8.9	.6	--	230	270	--	7
JUNE 04...	1130	36	22.2	156	6.8	7.9	2.4	--	330	1300	--	7
26...	0940	30	21.2	162	6.6	11.0	1.8	--	--	1300	--	--
JULY 17...	1945	108	27.0	98	--	4.4	1.3	--	490	740	--	10
AUG. 20...	1135	30	21.9	176	--	7.9	1.3	--	3400	240	--	4
SEP. 17...	1350	29	17.6	109	5.5	9.6	--	--	700	315	--	8

DATE	COLOR (PLATINUM-COBALT UNITS)	TOTAL ORGANIC NITROGEN (N) (MG/L)	AMMONIA NITROGEN (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL ORTHO PHOSPHORUS (P) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)	ALKALINITY AS CACO3 (MG/L)	CARBONATE (CO3) (MG/L)
OCT. 16...	--	--	--	--	--	--	--	--	--	--	--	--
NOV. 20...	--	.12	.11	.00	1.0	.23	1.2	.10	.03	2.9	--	--
MAR. 12...	10	.44	.09	.01	.05	.53	.59	.13	.13	11	15	0
APR. 08...	13	.18	.03	.01	.71	.21	.93	.09	.01	3.5	16	0
MAY 08...	11	.22	.03	.02	1.1	.25	1.4	.09	.02	6.2	16	0
JUNE 04...	26	.36	.05	.03	1.2	.41	1.6	.17	.01	29	21	0
26...	--	--	--	--	--	--	--	--	--	--	--	--
JULY 17...	50	.35	.18	.01	.82	.53	1.4	.20	.07	10	10	--
AUG. 20...	27	.44	.01	.01	1.1	.45	1.6	.14	.06	8.3	24	--
SEP. 17...	3	.49	.02	.01	2.7	.51	3.2	.08	.06	3.0	--	0

DATE	BICARBONATE (HCO3) (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	TOTAL NONFILTRABLE RESIDUE (MG/L)
OCT. 16...	--	--	--	--	--	--	--	--	--	--	--	--
NOV. 20...	--	--	--	--	--	--	--	--	--	--	--	--
MAR. 12...	18	1.8	77	62	16	9.0	6.3	2.3	17	43	144	10
APR. 08...	19	4.8	58	42	17	3.7	4.0	3.0	11	33	109	25
MAY 08...	20	13	54	38	16	3.4	4.2	4.1	9.4	30	105	14
JUNE 04...	26	6.6	58	36	17	3.7	3.6	3.3	9.0	27	107	20
26...	--	--	--	--	--	--	--	--	--	--	--	--
JULY 17...	12	--	35	25	10	2.5	2.1	3.1	6.9	21	81	2
AUG. 20...	29	--	60	36	17	4.3	5.1	3.6	12	22	125	10
SEP. 17...	--	--	64	--	16	5.8	4.5	4.0	11	22	130	26

01477200 DELAWARE RIVER AT MARCUS HOOK, PA.

LOCATION.--Lat 39°48'01", long 75°25'10", Delaware County, at center of river on a line from the water end of the Maritime Exchange reporting station pier through channel station +128.7 to vertical lift bridge over Oldmans Creek.

DRAINAGE AREA.--10,400 mi² (26,900 km²).

PERIOD OF RECORD.--Chemical analyses: August 1949 to May 1969, October 1969 to September 1970 (partial-record station), October 1970 to September 1972, December 1973 to September 1975.

REMARKS.--Samples collected approximately 3 ft (1 m) from surface.

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	DIS-SOLVED NITRITE (N) (MG/L)	DIS-SOLVED NITRATE (N) (MG/L)	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)	DIS-SOLVED ORTHO PHOS-PHATE (PO4) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	BICAR-BONATE (HCO3) (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)
OCT. 17...	0830	16.0	272	.12	1.5	.61	1.9	33	40	80	47	19
NOV. 14...	0820	12.0	362	.50	1.6	.55	1.7	25	31	92	67	22
DEC. 05...	0835	7.0	343	.04	1.8	.75	2.3	29	35	91	62	22
JAN. 09...	0902	6.0	230	.06	1.3	.75	2.3	29	35	63	34	16
FEB. 06...	0837	4.0	234	.04	1.4	.61	1.9	33	40	73	40	19
MAR. 13...	0945	8.0	188	.04	.96	.09	.28	27	33	53	26	14
APR. 03...	0835	8.0	174	.03	1.1	1.4	4.3	25	30	54	29	14
MAY 08...	0840	15.5	243	.06	1.1	.09	.28	37	45	81	44	21
JUNE 05...	0945	22.5	197	.14	1.1	.06	.18	25	30	71	47	21
JULY 10...	0820	26.0	217	.26	1.5	.11	.34	37	45	71	34	19
AUG. 21...	0830	26.5	281	.27	1.6	.07	.21	39	48	92	53	22
SEP. 11...	0830	22.5	632	.07	2.3	.78	2.4	43	53	150	100	32

DATE	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)
OCT. 17...	7.8	17	3.3	21	50	.4	4.1	171	151	20	160
NOV. 14...	9.0	27	4.4	36	65	.3	5.0	215	195	50	220
DEC. 05...	8.7	26	2.4	36	57	.3	4.5	191	185	200	190
JAN. 09...	5.6	13	2.0	16	37	.1	6.3	140	122	80	190
FEB. 06...	6.1	16	1.9	22	36	.2	6.5	140	136	130	140
MAR. 13...	4.4	12	1.8	15	33	.2	5.4	123	107	100	160
APR. 03...	4.5	10	1.7	13	29	.1	5.9	109	102	80	130
MAY 08...	7.0	13	2.7	19	39	.1	5.0	134	135	80	110
JUNE 05...	4.6	10	2.2	18	32	.0	2.1	129	110	50	80
JULY 10...	5.8	13	2.7	17	36	.2	.6	144	125	50	30
AUG. 21...	9.0	17	3.1	18	47	.2	.4	183	149	10	10
SEP. 11...	16	67	5.6	110	67	.2	.3	376	337	10	30

01477510 OLDMANS CREEK AT PORCHES MILL, N. J.

LOCATION.--39°41'57", long 75°20'01", Salem County, at bridge on Kings Highway, 150 ft (46 m) downstream from confluence with tributary from outflow of lake at Porches Mill, 1.0 mi (1.6 km) north of Seven Stars, and 2.1 mi (3.3 km) southeast of Auburn.

DRAINAGE AREA.--21.0 mi² (54.4 km²).

PERIOD OF RECORD.--Chemical analyses: July to September 1975.

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	DIS-SOLVED OXYGEN (MG/L)	BIO-CHEM-ICAL OXYGEN DEMAND 5 DAY (MG/L)	FECAL COLI-FORM (EC BROTH) (MPN)	FECAL COLI-FORM (COL. PER 100 ML)	TUR-BID-ITY (JTU)	COLOR (PLAT-INUM-COBALT UNITS)	TOTAL ORGANIC NITRO-GEN (N) (MG/L)
JULY 17...	1040	25.2	99	--	6.0	1.9	540	600	45	45	.52
AUG. 28...	1020	22.0	197	--	7.9	1.1	>2400	170	5	21	.36
SEP. 17...	1310	18.3	184	5.8	9.8	--	540	190	7	10	.50

DATE	AMMONIA NITRO-GEN (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	TOTAL ORTHO PHOS-PHORUS (P) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	CAR-BONATE (CO3) (MG/L)	BICAR-BONATE (HCO3) (MG/L)
JULY 17...	.18	.01	.99	.70	1.7	.24	.09	11	14	--	17
AUG. 28...	.03	.02	2.0	.39	2.4	.06	.02	9.0	28	--	34
SEP. 17...	.01	.01	2.0	.51	2.5	.04	.02	4.8	30	0	36

DATE	CARBON DIOXIDE (CO2) (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	TOTAL NON-FILT-RABLE RESIDUE (MG/L)
JULY 17...	--	42	28	12	3.0	1.7	3.2	7.0	10	62	35
AUG. 28...	--	73	45	21	5.0	3.1	3.5	11	23	146	7
SEP. 17...	91	66	36	18	5.1	3.1	3.7	11	20	145	20

01482100 DELAWARE RIVER AT DELAWARE MEMORIAL BRIDGE, NEAR WILMINGTON, DEL.

LOCATION.--Lat 39°41'18", long 75°31'06", New Castle County, at center of the navigational channel at bridge between Pigeon Point, Del. and Deepwater Point, N. J. Water-quality recorder (39°41'21", 75°31'19") at tidal-gaging station located on channel side of west tower of south bridge.

DRAINAGE AREA.--11,030 mi² (28,600 km²).

PERIOD OF RECORD.--Chemical analyses: July 1965 to September 1975.
Water temperatures: October 1956 to September 1975.

EXTREMES.--1974-75:
Specific conductance: Maximum, 8,460 micromhos Nov. 12; minimum, 100 micromhos Aug. 13.
Dissolved oxygen: Maximum, 11.6 mg/l Mar. 10; minimum, 0.2 mg/l Nov. 4.
Water temperatures: Maximum, 29.5°C Aug. 3; minimum, 3.0°C Feb. 13, 14, 15, 16, 17.
pH: Maximum, 7.8 May 15; minimum, 6.1 Jan. 13, 17.
Period of record:
Specific conductance: Maximum, 14,600 micromhos Oct. 6, 1957; minimum, 100 micromhos on many days.
Dissolved oxygen (1962-75): Maximum, 13.5 mg/l Dec. 20, 1969; minimum, 0.0 mg/l on many days.
Water temperatures (1956-75): Maximum, 31.0°C Aug. 9, 1968; minimum, freezing point on many days during winter months.
pH (1968-75): Maximum, 9.3 Nov. 10, 11, 13, 1970; minimum, 4.2 Nov. 6, 1969.

REMARKS.--Missing continuous water-quality records are the result of malfunction of sensor or sampling mechanism.

SPECIFIC CONDUCTANCE (MICROMHOS AT 25°C), WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	5940	860	2920	3120	640	1890			
2	---	---	---	5340	980	2920	5360	1200	2980			
3	---	---	---	6180	1300	3320	4860	580	2440			
4	---	---	---	6260	1460	3540	2080	540	1130			
5	---	---	---	5720	1440	3520	4320	660	1980			
6	---	---	---	5820	1340	3490	3940	700	2220			
7	2400	440	---	5920	1440	3640	4200	680	2290			
8	2960	360	1420	6340	1640	3890	4220	820	2410			
9	3120	520	1660	7040	2200	4290	2260	520	972			
10	3100	560	1660	7260	2180	4550	560	480	---			
11	3520	460	1620	7780	2460	5270	---	---	---			
12	3780	580	1890	8460	3720	5830	---	---	---			
13	3460	480	1910	7960	3060	5520	---	---	---			
14	4320	840	2540	6260	3020	---	---	---	---			
15	4080	340	2040	---	---	---	---	---	---			
16	2880	320	1410	---	---	---	---	---	---			
17	2880	260	1400	---	---	---	---	---	---			
18	2080	280	1070	2480	660	---	---	---	---			
19	2560	280	1200	2100	620	1310	---	---	---			
20	1960	240	1080	2320	680	1390	---	---	---			
21	1620	220	860	1000	560	1180	---	---	---			
22	2020	260	1260	1180	540	745	---	---	---			
23	2640	320	1360	1820	600	1140	---	---	---			
24	3840	580	1760	1860	620	1100	---	---	---			
25	3360	620	1880	1520	580	863	---	---	---			
26	3900	460	1760	940	420	684	---	---	---			
27	3240	460	1850	1540	560	876	---	---	---			
28	4740	580	2080	2600	560	1080	---	---	---			
29	---	---	---	2060	560	1090	---	---	---			
30	4420	700	---	2440	560	1210	---	---	---			
31	5100	760	2670	---	---	---	---	---	---			
MONTH	---	---	---	8460	420	2610	---	---	---			

01482100 DELAWARE RIVER AT DELAWARE MEMORIAL BRIDGE, NEAR WIL::INGTON, DEL.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS AT 25°C), WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	260	190	225	---	---	---	750	200	360
2	---	---	---	230	170	203	200	180	---	650	180	330
3	---	---	---	210	170	186	250	170	195	520	200	---
4	---	---	---	190	170	181	---	---	---	---	---	---
5	---	---	---	210	170	188	---	---	---	---	---	---
6	---	---	---	220	180	195	---	---	---	---	---	---
7	290	270	---	220	180	194	---	---	---	---	---	---
8	400	270	289	240	180	195	---	---	---	---	---	---
9	320	270	285	260	180	190	---	---	---	---	---	---
10	300	280	285	520	190	233	---	---	---	---	---	---
11	420	280	317	490	160	253	---	---	---	---	---	---
12	530	270	334	1020	160	343	---	---	---	---	---	---
13	520	270	335	870	170	361	---	---	---	---	---	---
14	310	280	285	830	180	320	800	200	---	510	410	---
15	400	280	314	1320	190	367	2180	160	718	610	400	452
16	490	290	340	570	200	280	2020	160	695	900	390	429
17	480	290	352	820	200	323	2650	180	1030	450	380	409
18	560	300	370	1010	230	373	2190	160	970	450	360	400
19	510	300	342	1130	230	500	1830	170	774	420	240	333
20	360	300	314	360	220	246	1230	200	543	290	220	250
21	350	300	316	260	230	245	760	170	387	310	220	250
22	390	300	327	260	230	248	1320	180	510	290	220	---
23	440	320	345	250	220	233	1310	190	532	---	---	---
24	430	320	342	250	220	226	1340	160	600	---	---	---
25	440	310	343	240	210	---	1560	220	699	---	---	---
26	320	280	296	---	---	---	1270	350	853	---	---	---
27	290	230	250	---	---	---	780	350	560	---	---	---
28	260	220	238	250	190	---	930	200	571	---	---	---
29	---	---	---	---	---	---	1010	200	303	---	---	---
30	---	---	---	---	---	---	1020	220	309	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	560	220	---	1320	160	---	---	---	---	---	---	---

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	440	260	327	290	250	266	---	---	---
2	250	210	---	430	240	314	360	250	282	---	---	---
3	280	210	233	510	250	320	500	250	311	---	---	---
4	300	210	236	1280	250	384	910	260	379	---	---	---
5	440	210	267	630	260	---	1240	170	458	---	---	---
6	400	210	257	---	---	---	1430	170	496	---	---	---
7	290	210	235	---	---	---	1330	180	638	---	---	---
8	310	230	242	2820	340	---	1940	180	793	---	---	---
9	420	230	---	4380	390	1680	2100	190	733	---	---	---
10	---	---	---	4060	460	1960	1940	180	848	---	---	---
11	---	---	---	5060	880	2290	1970	210	1030	---	---	---
12	---	---	---	6870	1290	2900	1880	130	520	---	---	---
13	---	---	---	4440	830	2230	750	180	---	---	---	---
14	---	---	---	1890	340	956	---	---	---	---	---	---
15	---	---	---	940	360	603	---	---	---	---	---	---
16	---	---	---	480	220	301	---	---	---	---	---	---
17	310	220	---	370	230	270	---	---	---	---	---	---
18	330	200	242	340	220	257	---	---	---	4930	2610	---
19	310	190	237	330	230	258	---	---	---	6180	2170	4180
20	310	200	230	390	210	261	---	---	---	6180	2030	4180
21	390	200	245	250	200	214	---	---	---	5770	2000	3890
22	430	180	255	270	200	219	---	---	---	5700	1710	3600
23	430	190	250	240	200	---	---	---	---	5030	1280	3000
24	300	210	---	270	200	225	---	---	---	3110	870	---
25	---	---	---	260	200	220	---	---	---	---	---	---
26	---	---	---	230	200	213	---	---	---	---	---	---
27	---	---	---	240	200	218	---	---	---	---	---	---
28	---	---	---	250	210	223	---	---	---	---	---	---
29	---	---	---	280	210	242	---	---	---	---	---	---
30	450	270	---	260	240	253	---	---	---	---	---	---
31	---	---	---	320	240	263	---	---	---	---	---	---
MONTH	---	---	---	6870	200	677	---	---	---	---	---	---

01482100 DELAWARE RIVER AT DELAWARE MEMORIAL BRIDGE, NEAR WILMINGTON, DEL.--Continued

DISSOLVED OXYGEN (DO), IN MILLIGRAMS PER LITER, WATER YEAR 1974 TO SEPTEMBER 1975

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	4.4	.9	2.4	9.8	6.4	8.3	9.0	7.4	8.2
2	---	---	---	3.5	.3	1.8	10.4	8.6	9.5	8.7	8.0	---
3	---	---	---	3.9	.3	1.7	9.9	7.9	9.0	---	---	---
4	---	---	---	3.5	.2	1.7	9.5	7.7	8.8	---	---	---
5	---	---	---	5.3	.3	2.3	10.3	8.2	9.3	---	---	---
6	---	---	---	6.0	.6	2.9	9.9	7.8	8.8	9.0	8.1	---
7	5.6	3.2	---	7.1	1.0	3.9	9.7	7.5	8.6	9.0	7.6	8.4
8	6.4	3.0	4.6	6.7	2.1	---	9.8	7.7	8.9	8.9	7.7	8.4
9	6.1	3.2	4.5	---	---	---	8.9	6.9	7.9	9.2	7.6	8.4
10	5.5	2.9	4.0	---	---	---	8.1	6.7	7.5	9.3	7.3	8.2
11	5.3	2.4	3.6	5.9	3.6	---	8.6	7.3	7.7	8.8	7.1	8.0
12	5.1	2.1	3.3	6.2	3.2	4.9	9.4	7.4	8.1	8.1	6.9	7.4
13	4.2	1.3	2.9	6.1	3.3	4.8	9.9	7.6	8.5	7.6	6.9	7.3
14	4.9	1.8	3.2	5.5	3.4	---	9.3	7.6	8.5	8.0	7.2	7.5
15	4.0	1.2	2.7	---	---	---	9.2	8.3	8.9	8.8	7.6	8.0
16	5.4	1.9	3.4	---	---	---	9.6	8.6	9.2	9.1	8.0	8.4
17	4.6	1.8	3.3	---	---	---	9.5	8.4	9.0	9.3	8.4	8.9
18	4.0	1.6	2.9	6.2	2.9	---	9.1	8.4	8.7	9.1	8.7	8.9
19	5.3	2.0	3.5	5.2	2.8	3.9	8.9	8.6	8.7	9.0	8.6	8.7
20	5.1	1.7	3.4	5.8	2.9	4.0	9.0	8.4	8.6	8.9	8.6	8.7
21	5.1	2.4	3.7	6.0	2.9	4.5	8.7	8.3	8.4	9.6	8.4	9.2
22	7.2	2.7	4.7	6.7	4.3	5.2	8.6	8.3	8.4	9.5	8.9	9.2
23	6.6	3.5	4.9	7.9	4.7	6.1	8.5	8.2	8.4	9.9	8.9	9.4
24	7.4	3.5	5.1	6.9	4.3	---	8.5	8.1	8.4	9.8	9.4	9.6
25	6.3	3.4	4.9	---	---	---	8.7	8.0	8.4	9.6	9.3	9.4
26	6.3	3.2	4.5	6.9	5.6	---	9.2	8.1	8.6	9.8	9.3	9.5
27	5.5	3.1	4.3	8.0	5.8	6.6	9.3	8.0	8.6	10.3	9.6	10.1
28	6.7	3.1	4.5	8.6	5.4	6.5	9.2	7.8	8.4	10.4	10.0	10.2
29	---	---	---	7.7	5.4	6.4	9.1	7.7	8.3	10.2	9.9	10.1
30	4.6	1.9	---	8.3	5.5	6.8	8.9	7.5	8.2	10.4	9.9	10.2
31	4.4	1.4	2.7	---	---	---	9.5	7.6	8.4	10.4	9.6	9.9
MONTH	---	---	---	8.6	.2	---	10.4	6.4	8.5	10.4	6.9	8.9

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	9.8	9.4	9.6	---	---	---	---	---	---	6.2	3.6	5.3
2	9.6	9.1	9.4	---	---	---	9.2	8.7	---	5.8	3.0	4.7
3	9.4	8.8	9.2	---	---	---	9.5	8.8	9.2	5.3	3.2	---
4	9.8	9.1	9.6	11.0	10.2	---	---	---	---	---	---	---
5	9.9	9.2	9.6	11.2	10.1	10.9	---	---	---	---	---	---
6	9.9	9.2	9.6	11.0	10.6	10.7	---	---	---	---	---	---
7	9.9	8.9	9.4	10.7	10.4	10.6	---	---	---	---	---	---
8	9.5	9.0	9.2	10.7	10.3	10.5	---	---	---	---	---	---
9	9.3	9.0	9.1	11.2	10.1	10.9	---	---	---	---	---	---
10	10.2	9.1	9.5	11.6	10.7	11.1	---	---	---	---	---	---
11	10.0	9.3	9.7	11.3	9.7	10.6	---	---	---	---	---	---
12	10.0	9.2	9.7	10.5	9.5	10.1	---	---	---	---	---	---
13	9.9	9.2	9.6	10.3	8.8	9.6	---	---	---	---	---	---
14	10.1	9.3	9.7	10.4	8.9	9.9	9.2	8.6	---	5.3	3.7	---
15	10.1	9.3	9.7	10.5	9.2	9.8	9.5	8.2	8.8	5.8	3.0	4.5
16	10.3	8.9	9.6	9.9	8.8	9.4	9.1	8.0	8.6	5.6	3.1	4.5
17	10.0	9.1	9.5	9.7	8.5	9.3	9.3	8.0	8.6	5.8	2.8	4.3
18	10.0	8.5	9.5	9.8	8.5	9.2	8.7	7.5	8.2	5.3	2.7	4.3
19	9.1	6.5	8.5	10.1	8.6	9.4	8.0	6.9	7.6	6.2	2.3	4.2
20	8.4	7.3	7.7	9.3	8.1	8.6	8.0	6.8	7.4	6.5	2.8	4.6
21	8.3	6.7	7.4	8.9	8.3	8.5	9.5	6.7	8.2	7.0	2.9	4.6
22	8.2	7.4	7.8	8.5	8.1	8.3	9.6	8.1	8.8	6.0	3.1	---
23	8.0	7.3	7.7	8.6	8.1	8.3	8.8	7.5	8.4	---	---	---
24	8.2	7.3	7.7	8.6	8.1	8.3	8.7	6.6	7.8	---	---	---
25	8.5	7.5	8.0	8.2	7.8	---	7.9	4.9	6.8	---	---	---
26	8.9	7.3	8.2	---	---	---	7.7	7.0	---	---	---	---
27	9.2	7.5	---	---	---	---	---	---	---	---	---	---
28	---	---	---	10.3	9.8	---	7.7	5.0	---	---	---	---
29	---	---	---	---	---	---	7.8	4.1	6.1	---	---	---
30	---	---	---	---	---	---	6.9	3.8	5.7	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	10.3	6.5	9.0	---	---	---	---	---	---	---	---	---

01482100 DELAWARE RIVER AT DELAWARE MEMORIAL BRIDGE, NEAR WILMINGTON, DEL.--Continued

DISSOLVED OXYGEN (DO), IN MILLIGRAMS PER LITER, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	4.4	1.8	3.4				---	---	---
2	5.4	.2	---	4.0	1.9	3.1				---	---	---
3	5.3	.8	3.1	3.4	2.3	2.8				---	---	---
4	6.0	.5	3.0	3.7	2.2	2.7				---	---	---
5	7.9	.9	4.1	2.8	2.2	---				---	---	---
6	7.1	2.4	4.4	---	---	---				---	---	---
7	5.3	1.3	3.3	---	---	---				---	---	---
8	5.1	1.2	3.1	4.2	3.0	---				---	---	---
9	6.0	1.4	3.2	4.8	2.4	3.4				---	---	---
10	---	---	---	4.4	2.0	3.2				---	---	---
11	---	---	---	4.8	1.8	3.3				---	---	---
12	---	---	---	4.7	1.5	3.0				---	---	---
13	---	---	---	4.6	1.8	3.2				---	---	---
14	---	---	---	3.8	1.8	2.7				---	---	---
15	---	---	---	3.7	2.0	2.6				---	---	---
16	---	---	---	3.2	2.1	2.7				---	---	---
17	5.5	1.6	---	---	---	---				---	---	---
18	4.2	1.0	2.8	---	---	---				5.4	4.6	---
19	5.3	1.1	2.5	---	---	---				5.8	4.1	4.9
20	5.8	.4	3.0	---	---	---				5.2	3.8	4.5
21	5.8	1.8	3.7	---	---	---				4.8	3.7	4.3
22	5.7	1.5	4.1	---	---	---				4.9	3.5	4.2
23	6.3	2.3	---	3.1	2.2	---				5.0	3.5	4.3
24	---	---	---	3.4	1.7	---				5.2	3.9	---
25	---	---	---	3.5	2.4	3.0				---	---	---
26	---	---	---	3.0	1.4	2.5				---	---	---
27	---	---	---	3.2	1.3	2.2				---	---	---
28	---	---	---	2.8	1.6	2.2				---	---	---
29	---	---	---	2.8	1.3	---				---	---	---
30	4.2	2.4	---	---	---	---				---	---	---
31	---	---	---	---	---	---				---	---	---
MONTH	---	---	---	---	---	---				---	---	---

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	15.0	14.0	14.5	8.5	7.0	8.0	5.5	5.0	5.5
2	---	---	---	15.5	14.5	15.0	8.0	7.0	7.5	6.5	5.0	---
3	---	---	---	15.5	15.0	15.0	8.5	7.0	8.0	6.5	5.5	6.0
4	---	---	---	16.0	15.0	15.5	8.0	7.0	7.0	7.0	6.5	6.5
5	---	---	---	16.0	15.5	15.5	7.0	6.0	6.5	7.0	6.0	6.5
6	---	---	---	16.0	15.0	15.5	8.0	6.0	6.5	6.5	5.5	6.0
7	18.0	17.0	---	15.5	14.5	15.0	7.0	6.0	6.5	6.0	5.5	5.5
8	18.0	16.5	17.0	15.0	14.0	14.5	8.0	6.5	7.5	6.0	5.5	5.5
9	17.5	16.5	16.5	14.5	14.0	14.0	8.5	7.0	8.0	6.5	5.5	6.0
10	17.0	16.5	16.5	14.0	13.5	13.5	8.5	6.5	7.0	6.5	6.0	6.0
11	17.0	16.5	16.5	14.0	13.5	---	6.5	6.0	6.0	7.0	6.0	6.5
12	17.0	16.5	16.5	---	---	---	6.5	5.5	6.0	8.0	7.0	7.0
13	17.0	16.5	17.0	---	---	---	6.0	5.5	6.0	8.0	7.0	7.5
14	17.0	16.5	17.0	---	---	---	6.0	6.0	6.0	7.0	6.5	7.0
15	18.0	17.0	17.0	---	---	---	6.0	5.5	5.5	6.5	6.0	6.0
16	17.0	16.5	16.5	---	---	---	6.5	5.5	6.0	6.0	5.5	6.0
17	16.5	16.5	16.5	---	---	---	6.5	6.0	6.0	6.0	5.5	5.5
18	16.5	16.0	16.0	13.0	11.5	---	6.0	5.5	6.0	6.0	5.0	5.5
19	15.5	15.0	15.5	13.0	12.0	12.0	5.5	5.5	5.5	6.0	5.5	6.0
20	15.5	14.5	14.5	13.0	11.5	12.0	5.5	5.5	5.5	6.0	5.0	5.5
21	14.5	13.5	14.0	13.0	11.5	11.5	6.0	5.0	5.5	5.5	4.5	5.0
22	14.5	13.0	14.0	11.5	10.0	11.0	5.5	5.5	5.5	5.0	4.0	4.5
23	14.0	13.5	14.0	11.0	10.0	10.5	5.5	5.0	5.5	5.0	4.5	4.5
24	14.0	13.5	13.5	11.0	9.5	10.5	6.0	5.0	5.5	5.0	4.5	5.0
25	14.0	13.5	13.5	11.5	10.5	11.0	6.0	5.5	5.5	5.5	4.5	5.0
26	14.0	13.5	14.0	11.0	9.5	10.0	6.0	5.0	5.5	5.0	4.5	5.0
27	14.0	12.5	13.5	10.0	8.5	9.5	5.5	5.0	5.5	5.0	4.0	4.5
28	14.0	13.0	13.5	9.5	8.0	9.0	5.5	5.0	5.5	4.5	4.0	4.5
29	---	---	---	9.0	8.0	8.5	5.5	5.0	5.5	5.0	4.5	5.0
30	14.5	14.0	---	9.0	8.0	8.5	5.5	5.0	5.5	5.0	4.5	5.0
31	15.0	14.0	14.5	---	---	---	5.5	5.0	5.5	5.5	4.5	5.0
MONTH	---	---	---	16.0	8.0	---	8.5	5.0	6.0	8.0	4.0	5.5

01482100 DELAWARE RIVER AT DELAWARE MEMORIAL BRIDGE, NEAR WILMINGTON, DEL.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	5.0	4.5	5.0	8.0	6.5	7.0	---	---	---	15.0	14.0	14.5
2	5.0	4.5	5.0	7.0	5.5	6.5	9.0	8.5	---	15.0	14.0	14.5
3	5.5	4.5	5.0	6.0	5.0	5.5	9.0	8.5	9.0	15.0	14.5	---
4	5.0	4.5	5.0	5.5	5.0	---	---	---	---	---	---	---
5	5.0	4.0	4.5	5.0	5.0	5.0	---	---	---	---	---	---
6	5.5	4.0	4.5	5.5	5.0	5.0	---	---	---	---	---	---
7	5.0	4.5	5.0	5.5	5.5	5.5	---	---	---	---	---	---
8	4.5	4.0	4.5	6.0	5.5	5.5	---	---	---	---	---	---
9	4.5	4.0	4.5	5.5	5.0	5.5	---	---	---	---	---	---
10	4.0	3.5	4.0	5.0	5.0	5.0	---	---	---	---	---	---
11	4.0	3.5	3.5	5.5	4.5	5.0	---	---	---	---	---	---
12	4.0	3.5	3.5	5.5	5.0	5.0	---	---	---	---	---	---
13	4.0	3.0	3.5	6.0	5.0	5.5	---	---	---	---	---	---
14	3.5	3.0	3.5	5.5	5.0	5.5	8.5	7.0	---	17.0	17.0	---
15	3.5	3.0	3.5	5.5	5.0	5.5	8.0	7.0	7.5	17.0	17.0	17.0
16	3.5	3.0	3.5	5.5	5.0	5.5	8.5	7.0	8.0	17.0	17.0	17.0
17	4.0	3.0	3.5	6.0	5.5	5.5	9.0	8.0	8.5	17.0	17.0	17.0
18	4.0	3.5	4.0	6.0	5.5	6.0	9.0	8.5	8.5	17.0	17.0	17.0
19	4.5	4.0	4.0	7.0	6.0	6.5	10.0	9.0	9.5	17.0	17.0	17.0
20	4.5	4.0	4.5	8.5	6.5	7.5	10.0	9.5	9.5	17.0	17.0	17.0
21	5.0	4.0	4.5	9.0	7.0	8.5	10.5	9.5	10.0	17.0	17.0	17.0
22	5.0	4.5	5.0	9.5	8.0	9.0	10.5	10.0	10.0	17.0	17.0	---
23	5.5	5.0	5.0	9.5	9.0	9.5	11.5	10.0	10.5	---	---	---
24	6.0	5.0	5.5	9.5	9.0	9.5	12.0	11.0	11.5	---	---	---
25	6.5	5.5	6.0	10.5	9.5	---	13.0	11.5	12.0	---	---	---
26	7.0	6.0	6.5	10.0	9.5	---	14.0	11.5	13.0	---	---	---
27	8.0	7.0	7.0	9.5	9.0	9.5	14.0	12.0	13.5	---	---	---
28	8.0	6.5	7.0	9.0	9.0	---	15.0	13.0	13.5	---	---	---
29	---	---	---	---	---	---	14.5	13.5	14.0	---	---	---
30	---	---	---	---	---	---	14.5	13.5	14.0	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	8.0	3.0	4.5	10.5	4.5	---	---	---	---	---	---	---

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	24.5	23.5	24.0	28.5	27.0	27.5	---	---	---
2	---	---	---	25.5	23.5	24.5	29.0	28.5	28.5	---	---	---
3	---	---	---	25.5	24.5	25.0	29.5	28.5	29.0	---	---	---
4	---	---	---	25.5	24.5	25.0	29.0	28.0	28.5	---	---	---
5	---	---	---	25.0	25.0	---	29.0	27.0	28.0	---	---	---
6	---	---	---	---	---	---	28.5	27.0	28.0	---	---	---
7	---	---	---	---	---	---	27.0	26.0	26.5	---	---	---
8	---	---	---	25.5	24.5	---	26.0	24.5	25.0	---	---	---
9	---	---	---	26.0	24.5	25.0	25.5	24.5	25.0	---	---	---
10	---	---	---	26.5	24.5	25.5	25.5	24.5	25.0	---	---	---
11	---	---	---	25.5	25.0	25.5	25.0	24.5	25.0	---	---	---
12	---	---	---	25.5	25.0	25.5	25.5	24.5	25.0	---	---	---
13	---	---	---	25.5	24.5	25.0	25.5	24.5	---	---	---	---
14	---	---	---	24.5	24.0	24.0	---	---	---	---	---	---
15	---	---	---	24.5	23.5	24.0	---	---	---	---	---	---
16	---	---	---	25.0	23.5	24.0	---	---	---	---	---	---
17	---	---	---	24.5	23.5	24.0	---	---	---	---	---	---
18	---	---	---	25.5	24.0	24.5	---	---	---	21.0	21.0	---
19	25.0	23.5	---	25.0	24.5	25.0	---	---	---	22.0	21.0	21.5
20	25.0	23.5	24.0	26.0	25.0	25.5	---	---	---	23.0	21.0	21.5
21	25.0	23.5	24.5	26.0	25.0	25.5	---	---	---	21.5	21.0	21.5
22	25.0	24.0	24.5	26.0	25.5	26.0	---	---	---	21.5	21.0	21.0
23	25.0	24.0	24.5	26.5	25.5	---	---	---	---	23.0	20.5	21.5
24	25.0	24.5	---	27.0	26.0	26.5	---	---	---	23.0	21.0	---
25	---	---	---	27.0	26.5	26.5	---	---	---	---	---	---
26	---	---	---	26.5	25.5	26.0	---	---	---	---	---	---
27	---	---	---	26.0	25.5	25.5	---	---	---	---	---	---
28	---	---	---	26.5	25.5	26.0	---	---	---	---	---	---
29	---	---	---	26.5	25.5	26.5	---	---	---	---	---	---
30	24.5	24.5	---	28.0	26.0	26.5	---	---	---	---	---	---
31	---	---	---	28.5	26.5	27.0	---	---	---	---	---	---
MONTH	---	---	---	28.5	23.5	25.5	---	---	---	---	---	---

DELAWARE RIVER BASIN

01482100 DELAWARE RIVER AT DELAWARE MEMORIAL BRIDGE, NEAR WILMINGTON, DEL.--Continued

pH (UNITS), WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1				---	---		---	---	---	6.8	6.6	6.7
2				---	---		---	---	---	7.0	6.7	6.8
3				---	---		---	---	---	6.8	6.7	6.8
4				---	---		---	---	---	6.8	6.7	6.7
5				---	---		---	---	---	6.8	6.7	6.8
6				---	---		---	---	---	6.8	6.4	6.7
7				---	---		---	---	---	6.9	6.5	6.8
8				---	---		---	---	---	6.8	6.6	---
9				---	---		---	---	---	6.8	6.6	---
10				---	---		---	---	---	6.8	6.3	---
11				---	---		---	---	---	---	---	---
12				---	---		---	---	---	6.9	6.7	6.8
13				---	---		6.8	6.5	---	6.9	6.1	6.6
14				---	---		6.8	6.4	6.6	6.9	6.9	6.9
15				---	---		6.8	6.6	---	6.9	6.9	6.9
16				---	---		---	---	---	7.0	6.8	6.9
17				---	---		6.6	6.3	---	7.0	6.1	6.9
18				6.9	6.5		6.7	6.6	6.7	6.9	6.7	---
19				---	---		6.6	6.3	6.5	---	---	---
20				---	---		6.6	6.4	6.5	6.9	6.9	---
21				---	---		6.6	6.4	6.5	7.0	6.9	6.9
22				---	---		6.7	6.4	6.6	6.9	6.8	6.9
23				---	---		6.7	6.5	6.7	6.9	6.7	6.8
24				---	---		6.9	6.6	6.7	6.8	6.7	6.7
25				---	---		6.9	6.8	6.9	6.8	6.7	---
26				---	---		6.9	6.9	6.9	6.8	6.7	6.8
27				---	---		7.0	6.8	6.9	6.8	6.6	6.7
28				---	---		6.9	6.8	6.9	6.7	6.6	6.7
29				---	---		7.1	6.7	6.9	6.7	6.4	6.6
30				---	---		7.0	6.7	6.8	6.8	6.7	6.7
31				---	---		6.7	6.6	6.7	6.8	6.7	6.7
MONTH				---	---		---	---	---	7.0	6.1	---

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	6.8	6.6	6.7	6.9	6.8	6.9	---	---	---	6.6	6.4	6.5
2	6.8	6.5	6.7	7.0	6.7	6.8	6.9	6.6	---	6.9	6.3	6.6
3	6.8	6.6	6.7	6.9	6.7	6.8	6.9	6.6	6.7	6.7	6.5	---
4	6.8	6.6	6.7	7.0	6.7	6.9	---	---	---	---	---	---
5	6.7	6.4	6.6	7.0	6.8	6.9	---	---	---	---	---	---
6	6.8	6.6	6.7	6.9	6.8	6.8	---	---	---	---	---	---
7	6.9	6.6	6.8	6.9	6.4	6.8	---	---	---	---	---	---
8	6.9	6.7	6.8	7.0	6.4	6.8	---	---	---	---	---	---
9	6.9	6.6	6.7	7.1	6.8	6.9	---	---	---	---	---	---
10	6.9	6.6	6.8	7.0	6.7	6.9	---	---	---	---	---	---
11	6.8	6.6	6.7	6.9	6.5	6.7	---	---	---	---	---	---
12	6.7	6.5	6.7	6.5	6.2	6.4	---	---	---	---	---	---
13	6.8	6.6	6.7	6.6	6.3	6.4	---	---	---	---	---	---
14	6.8	6.6	6.8	6.6	6.4	6.5	6.8	6.7	---	7.6	7.5	---
15	6.8	6.6	6.7	6.6	6.3	6.5	6.8	6.6	6.7	7.8	7.5	7.6
16	6.8	6.6	6.7	6.8	6.7	6.7	6.8	6.6	6.7	7.7	7.4	7.5
17	6.8	6.4	6.6	7.1	6.8	7.0	6.9	6.7	6.7	7.4	7.1	7.3
18	6.6	6.3	6.5	7.1	6.9	7.0	7.1	6.7	6.8	7.3	6.9	7.1
19	6.8	6.3	6.6	6.9	6.4	6.7	7.4	6.9	7.2	7.1	6.8	7.0
20	6.8	6.6	6.7	7.1	6.9	7.0	6.9	6.7	6.7	7.0	6.9	7.0
21	6.8	6.6	6.7	7.1	7.0	7.1	6.8	6.6	6.7	7.1	6.9	7.0
22	6.8	6.6	6.7	7.1	6.9	7.0	6.8	6.6	6.7	7.1	7.0	---
23	---	---	---	7.1	7.0	7.1	7.0	6.6	6.7	---	---	---
24	---	---	---	7.1	6.7	7.0	7.2	6.9	7.1	---	---	---
25	6.8	6.7	---	7.2	6.7	6.9	7.3	7.0	7.2	---	---	---
26	7.0	6.8	6.9	7.2	7.0	---	7.2	6.6	6.7	---	---	---
27	7.0	6.8	6.9	7.2	7.0	7.1	6.8	6.6	6.6	---	---	---
28	7.0	6.8	6.9	7.1	7.0	---	6.8	6.6	6.6	---	---	---
29	---	---	---	---	---	---	6.7	6.5	6.6	---	---	---
30	---	---	---	---	---	---	6.7	6.5	6.6	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	7.0	6.3	6.7	7.2	6.2	6.8	---	---	---	---	---	---

DELAWARE RIVER BASIN

01482100 DELAWARE RIVER AT DELAWARE MEMORIAL BRIDGE, NEAR WILMINGTON, DEL.--Continued

pH (UNITS), WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	6.9	6.8	6.8	6.9	6.8	6.8			
2	6.6	6.3	---	6.8	6.8	6.8	6.9	6.8	6.8			
3	6.6	6.3	6.4	6.8	6.8	6.8	6.9	6.8	6.9			
4	6.4	6.3	6.3	6.8	6.7	6.8	6.9	6.8	6.9			
5	6.6	6.3	6.4	6.8	6.8	---	6.9	6.8	6.9			
6	6.6	6.3	6.5	---	---	---	6.9	6.8	6.9			
7	6.4	6.3	6.4	---	---	---	6.9	6.8	6.9			
8	6.4	6.4	6.4	6.8	6.8	---	6.9	6.8	6.9			
9	6.4	6.4	---	6.8	6.8	6.8	6.9	6.8	6.9			
10	---	---	---	6.9	6.8	6.8	6.9	6.8	6.9			
11	---	---	---	6.9	6.8	6.8	6.9	6.8	6.8			
12	---	---	---	6.9	6.8	6.8	6.9	6.8	6.8			
13	---	---	---	6.8	6.7	6.8	6.9	6.5	6.8			
14	---	---	---	6.8	6.5	6.7	6.7	6.6	---			
15	---	---	---	6.8	6.3	6.6	---	---	---			
16	---	---	---	7.0	6.6	6.8	---	---	---			
17	6.8	6.8	---	7.0	6.7	6.9	---	---	---			
18	6.9	6.7	6.8	7.0	6.9	7.0	---	---	---			
19	6.9	6.8	6.8	7.0	6.9	7.0	---	---	---			
20	6.9	6.8	6.8	7.0	7.0	7.0	---	---	---			
21	6.9	6.8	6.9	7.1	7.0	7.0	---	---	---			
22	7.0	6.8	6.9	7.1	7.0	7.0	---	---	---			
23	7.0	6.8	6.9	6.8	6.7	---	---	---	---			
24	6.9	6.9	---	6.8	6.7	6.8	---	---	---			
25	---	---	---	6.8	6.8	6.8	---	---	---			
26	---	---	---	6.8	6.8	6.8	---	---	---			
27	---	---	---	6.8	6.7	6.8	---	---	---			
28	---	---	---	6.8	6.8	6.8	---	---	---			
29	---	---	---	6.8	6.7	6.8	---	---	---			
30	6.8	6.8	---	6.8	6.8	6.8	---	---	---			
31	---	---	---	6.8	6.8	6.8	---	---	---			
MONTH	---	---	---	7.1	6.3	6.8	---	---	---			

01482500 SALEM RIVER AT WOODSTOWN, N. J.

LOCATION.--Lat 39°38'36", long 74°19'52", Salem County, at gaging station on right end of Memorial Lake Dam at Woodstown, 0.2 mi (0.3 km) upstream from small brook, and 0.3 mi (0.5 km) downstream from Penn Central-Reading Seashore Line bridge.

DRAINAGE AREA.--14.6 mi² (37.8 km²).

PERIOD OF RECORD.--December 1972 to September 1975.

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	TEMPERATURE (DEG C)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	DISSOLVED OXYGEN (MG/L)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L)	IMMEDIATE COLIFORM (COL. PER 100 ML)	FECAL COLIFORM (EC BROTH) (MPN)	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)	TURBIDITY (JTU)
OCT. 16...	1215	85	--	202	7.3	9.0	6.0	900	--	500	1600	--
NOV. 20...	1205	8.5	8.1	222	7.9	12.0	3.0	690	--	36	10	--
MAR. 12...	1215	20	5.4	176	7.3	12.5	2.9	--	11	10	--	5
APR. 08...	1330	16	9.0	184	6.9	10.0	4.2	--	33	12	--	25
MAY 08...	1315	16	18.0	180	6.6	8.0	4.4	--	27	300	--	16
JUNE 04...	1230	13	23.4	170	7.2	6.1	5.1	--	220	260	--	20
26...	1050	8.5	25.0	204	7.2	7.7	4.2	--	--	50	--	--
JULY 17...	0920	35	25.0	87	6.9	7.5	3.4	--	2400	2000	--	30
AUG. 27...	1030	9.6	27.0	200	8.1	6.7	7.6	--	200	1000	--	8
SEP. 17...	1210	8.5	18.0	220	5.6	9.4	--	--	80	40	--	15

DATE	COLOR (PLATINUM-COBALT UNITS)	TOTAL ORGANIC NITROGEN (N) (MG/L)	AMMONIA NITROGEN (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL ORTHO PHOSPHORUS (P) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)	ALKALINITY AS CACO3 (MG/L)	CARBONATE (CO3) (MG/L)
OCT. 16...	--	--	--	--	--	--	--	--	--	--	--	--
NOV. 20...	--	.33	.29	.02	1.3	.62	1.9	.08	.03	7.2	--	--
MAR. 12...	8	.32	.03	.00	.04	.35	.39	.08	.02	9.3	21	0
APR. 08...	24	.76	.13	.02	1.9	.89	2.8	.11	.02	9.2	14	0
MAY 08...	39	.87	.13	.03	1.7	1.0	2.7	.16	.02	9.1	20	0
JUNE 04...	50	.89	.11	.05	1.3	1.0	2.3	.16	.02	16	22	0
26...	--	--	--	--	--	--	--	--	--	--	--	--
JULY 17...	54	.70	.50	.04	.87	1.2	2.1	.28	.10	12	15	0
AUG. 27...	3	.70	.17	.03	1.1	.87	2.0	.08	.02	21	28	0
SEP. 17...	3	.71	.10	.04	2.2	.81	3.0	.06	.01	9.4	--	0

DATE	BICARBONATE (HCO3) (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	TOTAL NONFILTRABLE RESIDUE (MG/L)
OCT. 16...	--	--	--	--	--	--	--	--	--	--	--	--
NOV. 20...	--	--	--	--	--	--	--	--	--	--	--	--
MAR. 12...	26	2.1	57	36	17	3.5	5.1	3.5	12	36	110	11
APR. 08...	17	3.4	69	55	15	7.7	5.4	3.7	14	37	130	36
MAY 08...	24	9.6	78	58	20	6.8	4.7	3.6	12	33	110	52
JUNE 04...	27	2.7	56	34	12	6.3	4.1	5.3	14	28	129	33
26...	--	--	--	--	--	--	--	--	--	--	--	--
JULY 17...	18	3.6	25	10	5.8	2.6	1.3	3.3	6.5	12	63	6
AUG. 27...	34	.4	72	45	16	7.9	4.8	4.6	14	29	129	14
SEP. 17...	--	--	78	--	17	8.6	5.1	5.2	14	30	147	42

01482537 SALEM RIVER AT COURSES LANDING, N. J.

LOCATION.--Lat 39°39'38", long 75°24'34", Salem County, at bridge on Pointers Auburn Road, 1.6 mi (2.6 km) north of Halltown, and 2.0 mi (3.2 km) northeast of Slapes Corner.

DRAINAGE AREA.--35.8 mi² (92.7 km²).

PERIOD OF RECORD.--Chemical analyses: June to September 1975.

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	DIS-SOLVED OXYGEN (MG/L)	BIO-CHEM-ICAL OXYGEN DEMAND 5 DAY (MG/L)	FECAL COLI-FORM (EC BROTH) (MPN)	FECAL COLI-FORM (COL. PER 100 ML)	TUR-BID-ITY (JTU)	COLOR (PLAT-INUM-COBALT UNITS)	TOTAL ORGANIC NITRO-GEN (N) (MG/L)
JUNE 26...	1230	23.6	230	6.7	4.7	3.9	>2400	5250	32	20	1.1
JULY 17...	1150	25.0	100	6.5	2.6	1.2	920	1750	35	70	.51
AUG. 28...	0900	24.5	243	--	6.9	4.1	>24000	1140	23	10	1.2
SEP. 17...	1100	17.0	250	5.8	5.8	--	16000	4800	10	2	.81

DATE	AMMONIA NITRO-GEN (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	TOTAL ORTHO PHOS-PHORUS (P) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	CAR-BONATE (CO3) (MG/L)	BICAR-BONATE (HCO3) (MG/L)
JUNE 26...	.32	.07	1.2	1.4	2.7	.39	.04	14	51	0	62
JULY 17...	.49	.05	.69	1.0	1.7	.44	.10	16	20	0	24
AUG. 28...	.18	.06	1.4	1.4	2.9	.12	.05	15	46	--	56
SEP. 17...	.17	.06	1.8	.98	2.9	.06	.04	9.0	49	0	60

DATE	CARBON DIOXIDE (CO2) (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	TOTAL NON-FILT-RABLE RESIDUE (MG/L)
JUNE 26...	20	87	36	22	7.8	11	5.0	20	27	149	67
JULY 17...	12	38	19	9.9	3.3	2.7	4.7	7.5	13	81	8
AUG. 28...	--	83	37	22	6.8	9.0	4.6	17	25	158	46
SEP. 17...	--	84	35	22	7.1	9.5	4.9	16	25	172	117

01482800 DELAWARE RIVER AT REEDY ISLAND JETTY, DEL.

LOCATION.--Lat 39°30'03", long 75°34'07", New Castle County, water-quality recorder located on platform about 0.4 mi (0.6 km) downstream from Reedy Island near Port Penn.

DRAINAGE AREA.--11,222 mi² (29,065 km²), approximately.

PERIOD OF RECORD.--Chemical analyses: October 1963 to September 1975.
Water temperatures: February 1970 to September 1975.

EXTREMES.--1974-75:
Specific conductance: Maximum, 17,600 micromhos Dec. 1; minimum, 200 micromhos Mar. 3, 4, 5, Apr. 3.
Dissolved oxygen: Maximum, 12.5 mg/l Feb. 16; minimum, 2.7 mg/l July 18.
Water temperatures: Maximum, 29.5°C Aug. 5; minimum, 1.5°C Feb. 14.
pH: Maximum, 8.6 May 8; minimum, 6.0 Dec. 31, Jan. 1, 2, 14, 15.
Period of record:
Specific conductance: Maximum, 35,400 micromhos Nov. 7, 1963; minimum, 100 micromhos on several days.
Dissolved oxygen (1970-75): Maximum, 13.7 mg/l Feb. 18, 19, 1973; minimum, 0.3 mg/l Sept. 16, 17, 1971.
Water temperatures (1970-75): Maximum, 29.5°C Aug. 5, 1975; minimum, freezing point on many days during winter months.
pH (1970-75): Maximum, 8.8 Aug. 29, Sept. 2, 1973; minimum, 5.4 Dec. 31, 1972.

REMARKS.--Missing continuous water-quality records are the result of malfunction of sensor or sampling mechanism.

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	7240	3840	5210	14300	7280	10100	17600	9320	---	7480	2760	4910
2	7120	4040	5290	13800	7280	9400	---	---	---	4720	1680	3100
3	6560	3880	4820	14800	7920	10200	---	---	---	9480	2680	6260
4	7520	4080	5430	14100	7440	10500	---	---	---	7360	3080	4870
5	7080	4760	5690	11700	6880	9060	---	---	---	7120	2480	4480
6	6360	4440	5160	12200	6560	8580	16300	7880	---	7920	2400	4450
7	6480	4360	5130	11900	6800	8950	15100	10700	13300	8160	2040	5380
8	7320	4640	5600	14300	7120	9940	16800	11000	14100	10200	2960	5740
9	6320	3160	4800	14000	8240	11000	13200	6520	9980	9120	3080	6080
10	11600	2560	5630	12900	8360	10700	10000	7400	9170	10000	2600	6250
11	12300	4800	7160	13500	8680	10700	7080	1880	4710	8240	2280	5200
12	10100	4880	7250	12600	8960	10700	7000	1440	2840	3960	1320	2380
13	12100	5160	7310	11900	8480	10200	5520	1160	2120	3800	1120	2160
14	12800	5720	8510	10100	7680	8620	6160	1000	2090	2840	560	1340
15	11500	5720	8820	7840	6400	7170	6040	960	2170	2520	440	870
16	10400	5080	7040	6640	5240	5960	8640	1760	3730	2000	480	760
17	11200	4720	7400	6480	4840	5550	5440	720	2450	560	360	445
18	8560	4880	---	12900	4840	8580	1600	560	1030	3520	360	1680
19	---	---	---	11500	9000	10100	4160	520	1300	1360	640	962
20	---	---	---	10600	9040	---	4600	760	1410	1600	440	787
21	---	---	---	---	---	---	6080	1080	3000	8040	920	4190
22	---	---	---	---	---	---	6680	1240	2810	7280	5000	6090
23	---	---	---	---	---	---	6760	960	2940	7240	4160	5770
24	---	---	---	---	---	---	7320	880	3380	10100	4800	6970
25	---	---	---	---	---	---	11400	1520	5210	10000	5120	7470
26	---	---	---	---	---	---	11800	2240	5700	7880	4680	6290
27	---	---	---	14700	10600	---	14700	2560	6760	4640	3280	4020
28	---	---	---	16300	12000	14500	10200	2080	4980	4760	760	2670
29	---	---	---	15100	12000	13800	11800	2840	6240	5600	720	1990
30	---	---	---	17000	7080	12800	9160	3440	6070	1800	640	1090
31	14100	7360	---	---	---	---	8480	2560	4780	1800	560	947
MONTH	---	---	---	17000	4840	---	17600	520	4890	10200	360	3730

DELAWARE RIVER BASIN

01482800 DELAWARE RIVER AT REEDY ISLAND JETTY, DEL.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS AT 25°C), WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	2240	520	885	320	200	282	440	320	370	4080	1920	2910
2	1200	440	690	280	240	270	600	360	380	5200	1600	3010
3	800	440	563	280	200	240	2720	200	820	5920	1640	3360
4	1200	360	530	560	200	253	---	---	---	6640	1800	3490
5	5600	400	1930	3000	200	1420	---	---	---	6400	1800	3620
6	6920	840	2770	4040	520	1970	---	---	---	9240	2040	4530
7	5000	960	2060	4720	480	1980	---	---	---	6720	1720	3290
8	6040	720	2300	2920	640	1400	---	---	---	7720	1360	3000
9	4720	600	1610	7160	800	3680	---	---	---	6440	1400	2800
10	6200	640	2240	9640	5080	7490	14900	7160	---	5920	1360	2620
11	7360	1200	3040	8040	7080	7460	15900	6200	9480	5000	1280	2370
12	6000	1440	2980	7600	6600	7100	15700	5560	8810	5800	1400	2590
13	6520	1440	3160	7500	6560	7030	12400	5600	8450	5200	1400	2370
14	3240	1000	1660	6640	6280	6470	10600	8000	9140	4080	1400	2100
15	4040	1120	2280	6800	6360	6610	10800	4360	7170	4560	1440	2240
16	5640	1000	3470	6360	5960	6170	11000	4560	7020	2040	1240	1700
17	5560	2400	3640	5920	2040	4570	13500	5000	8590	1920	1000	1290
18	6800	3400	4980	7520	2840	4390	14000	5000	8060	1520	880	1170
19	6800	2040	4360	7080	2720	4020	12000	4520	6780	1600	880	1200
20	6200	1600	3130	6600	1360	2830	9080	3080	5030	1400	960	1220
21	7160	1440	3270	2200	840	1270	6800	2400	4840	2080	560	1040
22	7840	1240	3470	2160	840	1080	10000	2200	4620	4320	520	1070
23	8000	1400	3310	1000	640	825	9600	2600	4760	4000	520	1230
24	7320	1320	3270	2000	480	790	8320	2760	4940	3160	560	1100
25	5040	920	2470	960	360	585	9120	2760	4650	4360	560	1500
26	1320	320	638	520	360	448	9200	2040	4200	6280	840	2190
27	480	200	328	560	360	410	8360	1760	3140	4600	1000	2090
28	320	240	283	460	360	378	8360	1760	3230	3960	1160	1890
29	---	---	---	1480	560	882	7760	1840	3280	4240	1440	2170
30	---	---	---	2040	760	1420	7000	1840	3180	4200	1440	2720
31	---	---	---	1720	360	708	---	---	---	4120	1960	2670
MONTH	8000	240	2330	9640	200	2750	15900	200	---	9240	520	2280

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	3840	1440	2200	---	---	---	7720	800	3210	14100	10300	12500
2	2640	920	1630	8840	2000	---	9800	1600	4600	14600	9640	11900
3	5120	1000	2700	10200	2400	5930	12400	2480	6100	14500	8000	10900
4	9120	1640	4190	13400	2360	7730	13400	2440	7100	16000	7760	11700
5	12300	2760	6500	16800	4160	9770	14400	3760	---	15600	7800	10500
6	10800	2920	6510	17400	5200	10200	11600	3960	6860	16300	7800	11200
7	10300	2200	4930	17000	5800	10600	10800	5120	8120	15400	7760	10500
8	7800	1360	3670	15900	6160	10200	12900	9480	---	15700	8320	11000
9	10800	1200	---	16900	8840	11800	---	---	---	14800	8200	11200
10	---	---	---	14300	7400	10200	---	---	---	14500	8200	10700
11	---	---	---	12800	7360	9680	---	---	---	15000	8440	11200
12	---	---	---	13000	7960	10100	---	---	---	13000	8160	10100
13	---	---	---	12500	8320	9850	---	---	---	14400	6520	9340
14	---	---	---	9640	4560	6950	---	---	---	14600	6480	9390
15	---	---	---	6200	3600	5230	---	---	---	14700	7640	9940
16	---	---	---	5520	2200	3280	---	---	---	13800	8960	10800
17	2480	720	---	2200	840	1620	---	---	---	13400	8200	10500
18	2720	680	1220	2280	680	1130	---	---	---	13000	8360	9890
19	2040	680	1120	2520	640	1050	---	---	---	11600	9240	10300
20	---	---	---	2920	600	1010	11000	6040	---	11100	9520	10300
21	---	---	---	1480	480	815	12000	5080	8050	10800	9120	9770
22	---	---	---	1960	600	800	12500	6040	8150	11800	6720	8990
23	1960	840	---	1160	440	768	11400	5680	7720	10500	6840	8250
24	2920	760	1230	3280	440	1010	12200	5800	8770	9960	5080	7630
25	3200	760	1400	3080	480	972	11300	6120	8040	7360	3360	5600
26	4520	920	1950	1200	400	623	11500	5960	8430	6520	1920	4190
27	4480	1200	---	2760	520	1180	10900	5760	7850	3680	1600	2140
28	---	---	---	3360	760	1610	10900	5400	7670	2840	1640	1900
29	---	---	---	3840	520	1310	13200	5720	8610	4840	1240	2330
30	---	---	---	5520	520	2090	12300	6720	9870	6480	1160	2980
31	---	---	---	6160	640	2470	15700	6200	10500	---	---	---
MONTH	---	---	---	17400	400	4830	---	---	---	16300	1160	8920

DELAWARE RIVER BASIN

01482800 DELAWARE RIVER AT REEDY ISLAND JETTY, DEL.--Continued

DISSOLVED OXYGEN (DO), IN MILLIGRAMS PER LITER, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	7.5	6.7	7.1	8.0	6.6	7.4	11.3	10.3	10.8	10.1	9.4	9.8
2	7.6	6.6	7.1	7.6	6.2	7.1	10.3	9.7	10.0	10.8	9.7	10.4
3	8.1	7.0	7.6	7.4	6.2	6.8	11.4	10.0	10.6	11.0	10.3	10.7
4	8.7	7.5	8.0	7.9	6.0	7.1	11.7	11.1	11.4	10.9	10.3	10.6
5	8.4	7.4	8.0	7.6	6.4	7.1	11.4	9.5	---	10.8	10.3	10.6
6	8.3	7.2	7.7	7.9	6.3	7.1	11.0	10.4	---	11.0	10.3	10.7
7	8.3	7.1	7.7	8.1	6.6	7.6	10.9	10.2	10.6	11.1	10.6	10.8
8	8.8	7.5	8.2	9.1	7.3	8.3	11.0	10.4	10.7	11.3	10.4	10.8
9	8.3	7.6	---	9.2	8.0	8.7	10.8	9.9	10.3	11.3	10.4	10.8
10	8.7	7.3	---	9.0	8.0	8.7	10.4	9.4	9.9	11.3	10.3	10.7
11	8.7	6.9	8.0	9.0	7.9	8.6	9.9	8.6	9.3	11.2	10.1	10.6
12	8.5	6.8	7.8	8.9	8.0	8.6	10.4	8.3	9.1	10.4	9.5	10.1
13	8.7	6.9	7.7	8.9	8.2	8.6	9.9	8.2	8.8	10.4	9.5	9.9
14	8.6	7.2	7.9	8.9	8.4	8.7	9.8	8.2	8.7	10.3	9.4	9.8
15	8.3	7.1	7.7	9.1	8.5	8.9	9.8	8.3	8.8	10.9	9.6	10.2
16	9.0	7.9	8.4	9.1	8.6	8.9	10.7	9.2	9.7	10.8	10.2	10.5
17	8.7	7.2	8.1	9.1	8.6	8.8	10.0	9.1	9.5	12.4	10.6	11.5
18	8.6	7.7	---	8.9	8.3	8.7	9.9	9.1	9.5	11.6	11.0	11.3
19	---	---	---	8.8	8.2	8.5	9.8	9.5	9.6	11.6	11.0	11.2
20	---	---	---	8.8	8.3	---	10.0	9.5	9.7	12.1	11.0	11.6
21	---	---	---	---	---	---	9.9	9.6	9.7	12.3	11.5	11.9
22	---	---	---	---	---	---	10.1	9.6	9.8	12.2	11.0	11.5
23	---	---	---	---	---	---	10.1	9.4	9.7	11.8	10.9	11.3
24	---	---	---	---	---	---	9.7	9.3	9.5	11.8	10.8	11.2
25	---	---	---	---	---	---	10.1	9.4	9.7	11.7	10.6	11.2
26	---	---	---	---	---	---	10.3	9.7	10.0	11.6	10.8	11.2
27	---	---	---	10.4	9.7	---	10.6	9.8	10.1	12.2	11.1	11.5
28	---	---	---	10.4	9.7	10.1	10.3	9.8	10.0	11.6	10.9	11.2
29	---	---	---	10.4	9.7	10.1	10.3	9.7	10.0	11.3	10.7	11.0
30	---	---	---	10.7	9.8	10.3	10.2	9.5	9.9	11.5	10.9	11.2
31	8.1	6.8	---	---	---	---	10.2	9.5	9.8	11.1	10.8	11.0
MONTH	---	---	---	10.7	6.0	---	11.7	8.2	9.8	12.4	9.4	10.9

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	11.1	10.7	10.9	10.5	10.1	10.3	10.2	9.7	9.9	9.3	8.5	8.9
2	11.0	10.4	10.7	10.5	10.1	10.3	10.1	9.8	10.0	9.3	8.3	8.7
3	10.9	10.3	10.6	11.1	10.3	10.7	10.2	9.9	---	9.0	8.0	8.5
4	11.0	10.3	10.8	11.9	10.7	11.2	---	---	---	9.2	7.9	8.6
5	12.0	10.9	11.3	11.6	11.0	11.2	---	---	---	9.0	8.0	8.4
6	12.0	10.8	11.3	11.5	11.0	11.2	---	---	---	9.1	7.8	8.3
7	11.7	10.8	11.2	11.2	11.0	11.1	---	---	---	8.6	7.5	7.9
8	11.9	11.0	11.4	11.7	11.0	11.3	---	---	---	8.1	6.6	7.3
9	11.8	11.1	11.5	12.2	11.0	11.8	---	---	---	7.5	6.2	6.8
10	12.2	11.5	11.8	12.1	11.7	11.9	11.2	10.6	---	6.9	5.8	6.4
11	12.3	11.4	11.8	11.9	11.5	11.7	11.3	10.4	10.7	6.6	5.5	6.2
12	12.1	11.4	11.7	11.8	11.4	11.6	11.2	10.2	10.5	7.3	5.9	6.7
13	12.2	11.5	11.9	11.7	11.2	11.5	11.0	10.0	10.3	7.3	6.5	6.9
14	12.4	11.8	12.1	11.9	11.3	11.7	10.8	9.9	10.2	6.9	6.3	6.7
15	12.4	12.0	12.1	11.9	11.5	11.7	10.8	10.1	10.4	7.1	6.1	6.7
16	12.5	11.7	12.1	11.8	11.2	11.5	11.1	10.1	10.5	6.9	6.1	6.4
17	12.3	11.6	12.0	11.7	10.8	11.3	11.4	10.1	10.7	6.5	5.7	6.2
18	12.4	11.5	12.0	11.4	10.8	11.1	11.6	10.0	10.5	6.2	5.6	6.0
19	12.3	11.3	11.7	11.4	10.8	11.2	11.1	9.8	10.2	6.0	5.4	5.7
20	11.9	11.1	11.4	11.3	10.5	10.9	10.3	9.7	9.9	6.3	5.2	5.7
21	11.8	10.9	11.2	10.7	10.0	10.3	10.2	9.6	9.9	5.6	4.9	5.3
22	11.6	10.6	11.1	10.3	9.7	10.0	10.7	9.6	9.9	5.7	4.8	5.3
23	11.6	10.5	11.0	9.8	9.2	9.5	10.5	9.4	9.8	6.0	5.0	5.4
24	11.3	10.4	10.8	9.8	8.7	9.2	10.1	9.1	9.6	6.2	4.9	5.5
25	11.1	10.0	10.6	9.0	8.2	8.6	10.2	8.9	9.3	6.0	5.1	5.6
26	11.8	10.3	10.9	9.4	8.4	9.0	10.0	8.5	9.2	6.0	5.1	5.5
27	11.0	10.0	10.6	9.7	9.2	9.5	9.8	8.5	9.0	6.1	4.9	5.6
28	10.8	10.1	10.4	9.8	9.3	9.5	9.7	8.8	9.2	6.5	5.3	5.8
29	---	---	---	9.5	9.3	9.4	10.2	8.6	9.1	6.5	5.5	5.9
30	---	---	---	9.6	9.2	9.4	9.8	8.6	9.0	6.3	5.6	6.0
31	---	---	---	10.1	9.2	9.8	---	---	---	6.1	5.4	5.8
MONTH	12.5	10.0	11.3	12.2	8.2	10.6	11.6	8.5	---	9.3	4.8	6.6

01482800 DELAWARE RIVER AT REEDY ISLAND JETTY, DEL.--Continued

DISSOLVED OXYGEN (DO), IN MILLIGRAMS PER LITER, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	5.9	5.3	5.6	---	---	---	5.2	4.1	4.5	6.6	6.1	6.3
2	5.9	5.2	5.6	6.6	5.7	---	5.0	4.1	4.4	6.5	5.7	6.1
3	5.8	5.1	5.5	6.7	5.7	6.1	4.8	3.9	4.3	6.5	5.9	6.1
4	6.0	5.2	5.6	7.0	5.4	6.0	4.9	3.9	4.3	6.5	5.9	6.3
5	6.6	5.6	6.1	6.6	5.0	5.8	5.3	4.0	---	6.4	6.0	6.2
6	6.7	5.8	6.2	6.1	4.9	5.5	4.7	4.1	4.6	6.3	5.8	6.1
7	6.6	5.8	6.2	5.3	4.4	4.8	5.0	4.4	4.8	6.1	5.6	5.9
8	6.7	5.6	6.2	5.7	4.8	5.1	5.4	4.7	5.0	6.6	5.6	6.1
9	6.7	4.9	5.8	5.8	4.9	5.2	5.3	4.8	5.0	6.8	6.0	6.3
10	6.0	5.0	5.4	5.5	4.6	5.1	5.0	4.6	4.8	6.8	6.2	6.5
11	5.8	4.8	5.4	5.7	4.7	5.1	5.1	4.4	4.7	7.1	6.3	6.7
12	5.8	5.2	5.6	5.3	4.5	4.9	4.9	4.3	4.6	7.5	6.9	7.2
13	5.4	4.7	5.1	5.4	4.6	5.0	4.7	4.2	4.4	7.7	7.2	7.4
14	5.1	3.9	4.6	5.1	4.5	4.8	5.0	4.5	4.8	7.8	7.3	7.6
15	5.6	3.7	4.8	4.6	3.3	4.2	4.9	4.6	---	8.0	7.5	7.7
16	5.3	3.8	4.9	4.1	2.9	3.7	---	---	---	7.9	7.5	7.7
17	5.4	3.8	4.6	4.0	2.8	3.5	---	---	---	7.8	7.4	7.6
18	5.2	4.3	4.7	4.1	2.7	3.5	---	---	---	7.9	7.1	7.5
19	4.9	3.8	4.4	4.1	2.9	3.6	---	---	---	7.7	6.9	7.3
20	---	---	---	4.2	3.3	3.8	5.1	4.5	---	7.3	6.8	7.0
21	---	---	---	4.6	3.6	4.1	5.1	4.4	4.6	7.1	6.6	6.9
22	---	---	---	4.5	3.3	3.9	4.9	4.4	4.7	7.1	6.1	6.8
23	7.1	5.9	---	4.7	3.2	3.9	5.4	4.6	4.9	7.0	6.3	6.7
24	6.9	6.1	6.5	4.9	4.2	4.5	5.2	4.8	5.0	7.1	6.6	6.9
25	7.2	5.9	6.4	4.8	4.4	4.6	5.4	4.7	5.0	7.2	6.7	6.9
26	6.7	6.0	6.3	5.3	4.5	4.9	5.4	4.6	4.9	7.2	6.1	6.8
27	6.4	5.8	---	5.3	4.5	4.8	5.5	4.8	5.0	6.3	5.2	5.8
28	---	---	---	5.1	4.5	4.8	5.7	5.0	5.3	6.1	4.9	5.6
29	---	---	---	5.3	4.4	4.8	5.9	4.9	5.3	6.0	5.1	5.6
30	---	---	---	5.1	4.3	4.7	5.8	5.1	5.5	6.0	5.3	5.6
31	---	---	---	5.0	4.1	4.5	6.5	5.8	6.2	---	---	---
MONTH	7.2	3.7	---	7.0	2.7	4.7	6.5	3.9	---	8.0	4.9	6.6

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	20.0	19.5	19.5	15.5	14.5	14.5	8.0	7.0	7.5	6.0	5.0	5.5
2	19.5	18.5	19.0	15.5	14.5	15.0	---	---	---	5.5	5.0	5.0
3	19.0	17.0	18.0	15.0	15.0	15.0	---	---	---	5.0	5.0	5.0
4	17.0	16.5	17.0	15.0	14.5	14.5	---	---	---	5.5	5.0	5.0
5	18.0	16.5	17.0	14.5	14.5	14.5	---	---	---	5.5	5.0	5.0
6	18.0	16.5	17.0	14.5	14.0	14.5	6.5	6.0	---	5.0	4.5	5.0
7	18.0	16.5	17.0	14.0	13.5	14.0	6.5	6.0	6.0	5.5	4.5	5.0
8	17.0	16.0	16.5	14.0	13.5	13.5	7.0	6.0	6.5	5.5	4.5	5.0
9	16.5	16.5	---	14.0	13.0	13.5	7.0	6.0	6.5	6.0	5.0	5.5
10	17.0	16.5	---	13.5	13.0	13.0	6.5	6.0	6.0	5.5	5.0	5.5
11	18.0	16.5	16.5	13.5	13.0	13.0	7.0	6.0	6.5	6.5	5.5	6.0
12	18.0	16.5	16.5	13.0	12.0	13.0	6.5	6.0	6.5	6.5	6.0	6.0
13	17.0	16.5	16.5	13.0	12.0	12.5	6.5	6.0	6.0	6.0	6.0	6.0
14	17.0	16.5	16.5	13.0	11.5	12.0	6.5	6.0	6.0	6.0	5.0	5.5
15	18.0	16.5	17.0	12.0	11.0	11.5	6.0	6.0	6.0	5.0	4.5	5.0
16	17.0	16.5	16.5	11.5	10.5	11.0	6.5	6.0	6.0	5.0	4.5	4.5
17	17.0	16.0	16.5	11.0	10.5	10.5	6.5	6.0	6.0	4.5	3.5	4.0
18	16.5	16.0	---	11.0	10.5	10.5	6.0	5.5	6.0	4.5	4.0	4.0
19	---	---	---	11.0	10.5	10.5	6.0	5.5	5.5	4.5	4.0	4.5
20	---	---	---	10.5	10.5	---	6.0	5.5	5.5	4.5	3.5	4.0
21	---	---	---	---	---	---	5.5	5.5	5.5	4.0	3.5	3.5
22	---	---	---	---	---	---	5.5	5.5	5.5	4.5	3.5	4.0
23	---	---	---	---	---	---	6.0	5.0	5.5	4.5	4.0	4.0
24	---	---	---	---	---	---	6.0	5.5	5.5	4.5	4.0	4.0
25	---	---	---	---	---	---	6.0	5.5	5.5	4.5	4.0	4.5
26	---	---	---	---	---	---	5.5	5.0	5.5	4.5	4.0	4.5
27	---	---	---	8.5	8.5	---	5.5	5.0	5.0	5.0	3.5	4.5
28	---	---	---	8.5	8.0	8.5	6.0	5.0	5.5	4.5	4.0	4.5
29	---	---	---	8.5	8.0	8.0	5.5	5.0	5.5	5.0	4.0	4.5
30	---	---	---	8.0	7.0	7.5	5.5	5.5	5.5	5.0	4.5	4.5
31	15.0	14.5	---	---	---	---	5.5	5.0	5.5	4.5	4.0	4.5
MONTH	---	---	---	15.5	7.0	---	8.0	5.0	6.0	6.5	3.5	5.0

01482800 DELAWARE RIVER AT REEDY ISLAND JETTY, DEL.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	4.5	4.0	4.0	6.0	5.5	6.0	8.5	7.0	8.0	11.5	11.0	11.5
2	4.5	4.0	4.0	5.5	5.5	5.5	8.5	8.0	8.0	11.5	11.0	11.0
3	4.0	3.5	4.0	5.5	5.0	5.0	8.5	7.0	8.0	12.0	10.5	11.5
4	4.0	3.5	3.5	5.0	4.5	5.0	9.5	7.0	8.0	11.5	10.5	11.0
5	4.0	3.5	3.5	5.5	4.5	5.0	9.5	7.0	---	11.5	10.5	11.0
6	4.0	3.5	3.5	5.5	4.5	5.0	---	---	---	12.0	10.5	11.0
7	4.0	3.5	4.0	5.5	5.0	5.0	---	---	---	13.0	11.0	11.5
8	4.0	3.0	3.5	5.5	4.5	5.5	---	---	---	14.0	11.5	12.5
9	4.0	3.5	3.5	5.0	4.0	4.5	---	---	---	13.5	12.0	13.0
10	3.5	2.0	3.0	4.5	4.0	4.5	8.0	7.0	---	14.0	13.0	13.5
11	3.5	3.0	3.5	5.0	4.0	4.5	9.0	7.0	7.5	14.0	13.0	13.5
12	3.5	3.0	3.0	5.0	4.5	4.5	8.5	7.0	8.0	15.0	13.5	14.5
13	3.0	3.0	3.0	5.5	4.5	5.0	8.5	8.0	8.0	15.5	14.0	15.0
14	3.0	1.5	2.5	5.0	4.5	4.5	9.0	8.0	8.5	16.0	14.5	15.5
15	3.0	2.0	2.5	5.0	4.5	4.5	8.5	7.0	7.5	16.0	15.0	15.5
16	3.5	2.0	3.0	5.0	4.5	5.0	8.5	7.0	7.5	16.5	15.5	16.0
17	3.5	3.0	3.0	6.0	5.0	5.0	9.0	7.0	8.5	16.5	16.0	16.0
18	3.5	3.0	3.5	5.5	5.0	5.5	9.0	8.0	8.5	16.5	16.0	16.0
19	4.0	3.0	3.5	6.0	5.0	5.5	9.5	8.5	9.0	18.5	16.0	17.0
20	4.5	3.5	4.0	6.5	5.5	6.0	10.0	9.0	9.5	20.0	18.0	19.0
21	4.5	3.5	4.0	7.0	6.0	6.5	11.0	9.0	10.5	20.5	19.5	20.0
22	5.0	4.0	4.5	7.0	6.0	6.5	11.0	10.0	10.5	21.0	20.0	20.5
23	5.0	4.5	4.5	8.0	6.5	7.5	11.5	10.5	11.0	21.5	20.0	21.0
24	5.0	4.5	5.0	8.5	7.0	8.0	11.5	11.0	11.0	22.0	20.5	21.5
25	5.5	4.5	5.0	9.5	8.5	8.5	12.0	11.0	11.5	21.5	20.5	21.0
26	6.0	5.0	5.5	9.0	8.5	8.5	13.0	11.0	12.0	21.5	20.0	21.0
27	6.0	5.5	5.5	8.5	7.0	8.0	13.0	11.5	11.5	22.0	20.5	21.0
28	6.0	5.5	5.5	8.5	7.0	8.0	12.0	11.5	12.0	22.0	21.0	21.5
29	---	---	---	8.5	8.0	8.0	12.0	11.5	11.5	22.0	21.0	21.5
30	---	---	---	8.5	8.0	8.0	13.0	11.5	12.0	22.0	21.0	21.5
31	---	---	---	8.5	7.0	7.5	---	---	---	23.0	21.5	22.0
MONTH	6.0	1.5	4.0	9.5	4.0	6.0	13.0	7.0	9.5	23.0	10.5	16.5

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	23.0	21.5	22.0	---	---	---	---	---	---	24.5	23.5	24.0
2	23.5	21.5	22.5	25.0	24.5	---	---	---	---	24.5	23.5	24.0
3	23.5	21.5	22.5	25.5	24.0	24.5	---	---	---	24.0	23.5	24.0
4	23.5	22.0	22.5	25.5	24.0	24.5	---	---	---	23.5	23.0	23.5
5	23.5	21.5	22.5	25.5	24.0	25.0	29.5	28.0	---	24.0	23.0	23.5
6	23.5	22.0	23.0	25.5	24.5	24.5	28.5	27.0	28.0	23.5	23.0	23.5
7	23.5	22.0	23.0	25.5	24.5	25.0	27.0	26.0	26.5	23.0	23.0	23.0
8	22.0	21.5	22.0	26.0	24.5	25.0	26.5	25.5	26.0	23.0	21.0	22.0
9	22.0	21.0	21.5	25.5	24.5	25.0	26.5	25.5	26.0	21.5	21.0	21.0
10	23.0	21.0	21.5	26.0	24.5	25.5	26.5	25.5	26.0	21.0	20.5	21.0
11	22.0	21.0	21.5	25.5	25.0	25.0	26.5	26.0	26.0	21.0	20.5	20.5
12	21.5	21.0	21.0	25.5	24.5	25.0	26.5	26.0	26.5	21.0	20.0	20.5
13	23.0	21.0	22.0	25.0	24.5	25.0	27.0	26.0	26.5	20.5	19.5	20.0
14	23.5	21.5	22.5	25.5	24.5	25.0	27.0	26.0	26.5	20.0	19.0	19.5
15	23.0	22.0	22.5	26.0	25.0	25.5	26.5	26.0	---	19.5	18.5	19.0
16	23.5	22.0	23.0	26.0	25.0	25.5	---	---	---	19.5	18.5	19.0
17	23.5	22.0	23.0	26.0	25.5	25.5	---	---	---	20.0	18.5	19.0
18	24.0	22.0	23.0	27.0	25.5	26.0	---	---	---	19.0	18.5	19.0
19	24.5	23.0	23.5	26.5	25.5	26.0	---	---	---	19.5	18.5	19.0
20	23.5	21.5	22.5	27.0	26.0	26.0	27.0	24.0	---	20.0	19.0	19.5
21	24.0	22.0	23.0	27.0	26.0	26.5	26.5	25.5	26.0	19.5	19.0	19.5
22	24.0	23.0	23.5	27.0	26.0	26.5	26.5	26.0	26.0	20.5	19.0	20.0
23	24.0	23.5	23.5	28.0	26.0	27.0	26.0	25.5	25.5	20.5	20.0	20.0
24	24.5	23.0	23.5	28.0	26.5	27.0	26.0	25.0	25.5	20.0	19.5	19.5
25	25.0	23.5	24.0	27.0	26.5	26.5	26.5	25.5	26.0	19.5	19.5	19.5
26	24.0	23.5	23.5	26.5	26.0	26.5	27.0	26.0	26.5	20.5	19.5	20.0
27	23.5	23.0	---	27.0	25.5	26.5	26.5	26.0	26.5	20.5	20.0	20.0
28	---	---	---	27.0	26.0	26.5	26.5	25.5	26.5	20.0	19.5	20.0
29	---	---	---	---	---	---	26.5	25.5	26.0	20.0	19.5	19.5
30	---	---	---	---	---	---	26.0	25.5	25.5	20.0	19.5	19.5
31	---	---	---	---	---	---	25.5	24.0	24.5	---	---	---
MONTH	25.0	21.0	22.5	28.0	24.0	25.5	---	---	---	24.5	18.5	20.5

01482800 DELAWARE RIVER AT REEDY ISLAND JETTY, DEL.--Continued

pH (UNITS), WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	7.6	7.2	7.4	8.1	7.6	7.9	---	---	---	6.5	6.0	6.3
2	7.6	7.2	7.4	8.1	7.5	7.8	---	---	---	6.6	6.0	6.2
3	7.6	7.2	7.4	8.0	6.9	7.5	---	---	---	6.5	6.1	6.3
4	7.5	7.3	---	7.2	6.7	7.0	---	---	---	6.5	6.1	6.3
5	---	---	---	7.1	6.8	7.0	---	---	---	6.4	6.2	6.3
6	---	---	---	7.1	6.7	6.9	---	---	---	6.6	6.2	6.3
7	---	---	---	7.2	6.7	6.9	---	---	---	6.7	6.3	6.5
8	---	---	---	7.6	6.8	7.1	---	---	---	6.7	6.2	6.5
9	---	---	---	7.7	7.0	7.3	---	---	---	7.3	6.5	6.8
10	---	---	---	7.5	7.0	7.3	---	---	---	7.1	6.4	6.7
11	---	---	---	7.5	6.9	7.2	---	---	---	---	---	---
12	---	---	---	7.4	6.9	7.1	---	---	---	---	---	---
13	---	---	---	7.2	6.7	7.0	---	---	---	---	---	---
14	---	---	---	7.1	6.7	6.9	---	---	---	6.5	6.0	5.2
15	---	---	---	7.0	6.7	6.8	---	---	---	6.4	6.0	6.2
16	---	---	---	6.9	6.7	6.8	---	---	---	6.7	6.1	6.4
17	---	---	---	7.0	6.7	6.9	---	---	---	6.7	6.2	6.4
18	---	---	---	7.5	6.8	7.1	---	---	---	6.5	6.2	---
19	---	---	---	7.7	7.3	7.6	---	---	---	---	---	---
20	---	---	---	7.7	7.5	---	---	---	---	---	---	---
21	---	---	---	---	---	---	---	---	---	7.0	6.8	---
22	---	---	---	---	---	---	---	---	---	7.1	6.7	6.9
23	---	---	---	---	---	---	---	---	---	7.0	6.7	6.9
24	---	---	---	---	---	---	---	---	---	7.1	6.8	6.9
25	---	---	---	---	---	---	---	---	---	7.1	6.9	7.0
26	---	---	---	---	---	---	---	---	---	7.0	6.9	7.0
27	---	---	---	8.1	7.9	---	---	---	---	7.2	6.9	7.0
28	---	---	---	7.9	7.8	7.5	---	---	---	7.0	6.9	6.9
29	---	---	---	7.3	6.7	7.0	---	---	---	7.0	6.8	6.9
30	---	---	---	7.2	6.8	---	6.5	6.1	---	7.0	6.9	7.0
31	7.7	7.4	---	---	---	---	6.4	6.0	6.2	6.9	6.8	6.9
MONTH	---	---	---	8.1	6.7	---	---	---	---	7.3	6.0	---

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	6.9	6.8	6.8	7.1	6.4	6.6	7.2	7.0	7.1	---	---	---
2	6.8	6.7	6.8	6.6	6.5	6.5	7.2	7.1	7.2	---	---	---
3	6.8	6.6	6.7	6.7	6.5	6.6	7.3	7.1	7.2	---	---	---
4	6.7	6.6	6.7	6.7	6.5	6.6	---	---	---	---	---	---
5	7.0	6.6	6.8	7.4	6.6	6.8	---	---	---	7.8	7.5	---
6	7.1	6.7	6.9	7.1	6.7	---	---	---	---	8.4	7.4	7.7
7	7.0	6.8	6.9	---	---	---	---	---	---	8.4	7.5	7.7
8	7.0	6.7	6.9	---	---	---	---	---	---	8.6	7.5	---
9	7.0	6.8	6.9	---	---	---	---	---	---	---	---	---
10	7.1	6.8	6.9	---	---	---	---	---	---	---	---	---
11	7.1	6.9	7.0	---	---	---	---	---	---	---	---	---
12	7.5	6.9	7.1	---	---	---	---	---	---	6.6	6.5	---
13	7.1	6.6	6.8	---	---	---	---	---	---	6.6	6.2	6.4
14	6.7	6.6	6.6	---	---	---	---	---	---	6.5	6.4	6.4
15	7.0	6.7	6.7	---	---	---	7.2	7.0	---	6.5	6.4	6.5
16	7.1	6.7	6.8	---	---	---	7.3	7.0	7.1	6.6	6.4	6.5
17	7.3	6.8	7.0	---	---	---	7.5	7.0	7.2	6.7	6.6	6.7
18	7.3	6.8	7.1	---	---	---	7.5	6.9	7.1	6.6	6.4	6.5
19	7.3	6.7	7.0	---	---	---	7.3	6.9	7.0	6.7	6.6	6.6
20	6.7	6.5	6.6	---	---	---	7.0	6.8	6.9	7.0	6.6	6.8
21	6.7	6.5	6.6	---	---	---	7.3	6.8	7.1	6.9	6.7	6.8
22	6.7	6.5	6.6	---	---	---	7.5	7.0	7.2	6.7	6.6	6.7
23	---	---	---	---	---	---	7.3	7.0	---	6.8	6.4	6.7
24	---	---	---	---	---	---	---	---	---	6.8	6.6	6.7
25	7.1	6.5	6.7	---	---	---	---	---	---	6.8	6.6	6.7
26	6.9	6.5	6.6	---	---	---	---	---	---	6.8	6.6	6.8
27	6.7	6.4	6.6	---	---	---	---	---	---	6.8	6.5	6.7
28	7.6	6.5	6.8	---	---	---	---	---	---	6.9	6.7	6.8
29	---	---	---	---	---	---	---	---	---	6.8	6.7	6.8
30	---	---	---	---	---	---	---	---	---	6.8	6.7	6.7
31	---	---	---	7.3	7.1	---	---	---	---	6.9	6.6	6.8
MONTH	7.6	6.4	6.8	---	---	---	---	---	---	---	---	---

DELAWARE RIVER BASIN

01482800 DELAWARE RIVER AT REEDY ISLAND JETTY, DEL.--Continued

pH (UNITS), WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	7.0	6.7	6.8	---	---	---	7.4	6.9	7.1	7.3	7.1	7.3
2	6.9	6.8	6.8	7.5	7.2	---	7.4	7.0	7.2	7.4	7.1	7.3
3	7.0	6.7	6.9	7.3	7.1	---	7.4	7.0	7.2	7.4	7.1	7.2
4	7.1	6.7	6.9	7.3	6.8	7.2	7.5	6.9	7.2	7.6	7.1	7.4
5	7.1	6.6	6.8	7.4	6.7	7.0	7.3	7.0	---	7.5	7.0	7.2
6	7.2	6.9	---	7.2	6.7	7.0	7.2	6.9	7.0	7.2	6.9	7.0
7	---	---	---	7.2	6.7	7.0	7.0	6.7	6.8	7.2	6.9	7.0
8	---	---	---	7.2	6.8	7.0	7.1	6.9	7.0	7.8	6.9	7.5
9	7.2	6.6	---	7.3	6.9	7.1	7.2	6.9	7.0	7.6	7.4	7.5
10	7.9	6.7	7.2	7.2	6.9	7.0	7.1	6.8	7.0	7.5	7.3	7.4
11	6.9	6.6	---	7.1	6.9	7.0	7.1	6.8	7.0	7.7	7.2	7.6
12	---	---	---	7.2	6.9	7.0	7.1	6.7	6.9	7.7	7.5	7.6
13	---	---	---	7.3	7.0	7.1	7.1	6.7	6.9	7.8	7.6	7.7
14	---	---	---	7.1	6.9	7.0	7.1	6.7	6.9	7.8	7.6	7.7
15	---	---	---	7.0	6.8	6.9	7.0	6.8	---	7.8	7.6	7.7
16	---	---	---	6.9	6.7	6.8	---	---	---	7.9	7.6	7.7
17	6.9	6.7	---	6.8	6.7	---	---	---	---	7.9	7.6	7.8
18	7.1	6.6	6.8	7.5	6.9	7.1	---	---	---	8.0	7.5	7.8
19	---	---	---	7.1	6.8	6.9	---	---	---	8.0	6.9	7.5
20	---	---	---	7.3	6.9	7.1	7.3	7.1	---	8.1	7.4	7.8
21	---	---	---	7.3	7.0	7.2	7.2	6.9	7.0	8.1	7.7	7.9
22	---	---	---	7.5	7.2	7.4	7.0	6.8	6.9	8.0	6.8	7.4
23	7.6	7.1	---	7.7	7.3	7.5	7.0	6.8	6.9	---	---	---
24	7.2	7.0	7.1	7.5	7.1	7.2	7.1	6.9	7.0	---	---	---
25	7.2	6.8	7.0	7.1	6.9	7.0	7.2	6.9	7.1	---	---	---
26	6.9	6.7	6.8	7.2	7.0	7.1	7.3	6.9	7.1	---	---	---
27	6.8	6.5	---	7.2	7.0	7.1	7.2	7.0	7.1	---	---	---
28	---	---	---	7.2	7.0	7.1	7.2	6.9	7.0	---	---	---
29	---	---	---	7.5	6.9	7.1	7.3	6.9	7.1	7.8	7.2	---
30	---	---	---	7.3	7.0	7.2	7.3	7.1	7.2	7.7	7.4	7.5
31	---	---	---	7.1	6.9	7.0	7.4	7.1	7.2	---	---	---
MONTH	---	---	---	7.7	6.7	7.1	7.5	6.7	---	8.1	6.8	---

01482925 ALLOWAY CREEK AT INLET OF ALLOWAY LAKE NEAR ALLOWAY, N. J.

LOCATION.--Lat 39°34'39", long 75°20'47", Salem County, at bridge on Alloway Woodstown Road, 1.7 mi (2.7 km) upstream from outflow of Alloway Lake, 2.5 mi (4.0 km) southeast of Portertown, and 1.4 mi (2.3 km) northwest of outflow of Sycamore Lake.

DRAINAGE AREA.--19.4 mi² (50.2 km²).

PERIOD OF RECORD.--Chemical analyses: July to September 1975.

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	DIS-SOLVED OXYGEN (MG/L)	BIO-CHEM-ICAL OXYGEN DEMAND 5 DAY (MG/L)	FECAL COLI-FORM (EC BROTH) (MPN)	FECAL COLI-FORM (COL. PER 100 ML)	TUR-BID-ITY (JTU)	COLOR (PLAT-INUM-COBALT UNITS)	TOTAL ORGANIC NITRO-GEN (N) (MG/L)
JULY 17...	0800	22.6	90	6.2	5.7	1.8	>2400	610	16	64	.53
AUG. 27...	0900	22.0	220	6.9	6.2	8.4	3500	2100	13	10	3.8
SEP. 17...	0900	15.4	202	5.6	8.8	--	1300	340	5	3	.24

DATE	AMMONIA NITRO-GEN (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	TOTAL ORTHO PHOS-PHORUS (P) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	CAR-BONATE (CO3) (MG/L)	BICAR-BONATE (HCO3) (MG/L)
JULY 17...	.19	.02	.98	.72	1.7	.10	.08	11	9	0	11
AUG. 27...	.86	.25	2.7	4.7	7.6	.18	.03	13	28	0	34
SEP. 17...	.01	.01	4.0	.25	4.3	.03	.01	5.4	14	0	17

DATE	CARBON DIOXIDE (CO2) (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	TOTAL NON-FILT-RABLE RESIDUE (MG/L)
JULY 17...	11	34	25	7.0	4.0	2.1	4.0	7.0	15	74	47
AUG. 27...	6.8	55	27	11	6.7	4.2	4.5	15	20	117	96
SEP. 17...	68	65	51	12	8.4	4.5	4.4	15	21	135	22

GROUND-WATER QUALITY RECORDS

(Aquifer code designations and column heading explanations are listed on p. 465)

ATLANTIC COUNTY

LOCAL IDENT-I-FIER	LAT-I-TUDE	LONG-I-TUDE	SEQ. NO.	GEO-LOGIC UNIT	DATE OF SAMPLE	TIME	ELEV. OF LAND SURFACE DATUM (FT. ABOVE MSL)	TOTAL DEPTH OF HOLE (FT. BELOW LSD)	TOTAL DEPTH OF WELL (FT)	DEPTH TO TOP OF WATER-BEARING ZONE (FT)
ATLANTIC CO WC-2-5TH ST	39 19 08	074 30 02	01	121CNSY	75-05-22	0835	32	--	118	--
PRESIDENT HOTEL-NEW	39 20 58	074 27 11	01	122KRKD	75-05-22	1500	15	--	831	--
ATLANTIC CO WC-OAK AVE	39 21 19	074 34 24	01	121CNSY	75-05-22	0855	--	--	165	--
SHELBURNE HOTEL 2	39 21 20	074 26 06	02	122KRKD	75-05-22	1410	8.0	860	840	745
MARLBOROUGH-BLENHEIM 3	39 21 23	074 26 00	01	122KRKD	75-05-22	1325	5.0	838	823	--
CLARIDGE HOTEL	39 21 20	074 25 56	01	122KRKD	75-05-22	1215	--	--	850	--
CHALFONTE HOTEL-NEW	39 21 32	074 26 22	01	122KRKD	75-05-22	1113	--	--	850	--
BRIGANTINE CITY WD 4-66	39 23 24	074 23 14	01	122KRKD	75-05-22	1000	10	788	783	737
ATLANTIC CO WC-ABSECON 1	39 25 51	074 30 23	01	121CNSY	75-05-22	0930	30	263	205	160

LOCAL IDENT-I-FIER	DATE OF SAMPLE	DEPTH TO BOTTOM OF WATER-BEARING ZONE (FT)	DEPTH TO TOP OF SAMPLE INTER-VAL (FT)	DEPTH TO BOTTOM OF SAMPLE INTER-VAL (FT)	PUMP OR FLOW PERIOD PRIOR TO SAM-PLING (MIN)	INSTAN-TANEOUS FLOW RATE (GPM)	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)
ATLANTIC CO WC-2-5TH ST	75-05-22	--	78	118	120	350	14.2	184	5.6	17
PRESIDENT HOTEL-NEW	75-05-22	--	780	801	10	500	18.8	185	7.4	8.9
ATLANTIC CO WC-OAK AVE	75-05-22	--	96	165	120	750	13.0	143	5.1	21
SHELBURNE HOTEL 2	75-05-22	--	770	835	120	300	--	197	--	9.2
MARLBOROUGH-BLENHEIM 3	75-05-22	--	765	823	30	300	19.3	572	7.8	78
CLARIDGE HOTEL	75-05-22	--	773	850	--	--	18.8	190	7.5	10
CHALFONTE HOTEL-NEW	75-05-22	--	--	850	60	--	19.2	201	7.5	12
BRIGANTINE CITY WD 4-66	75-05-22	788	733	783	45	1000	18.7	155	7.3	5.2
ATLANTIC CO WC-ABSECON 1	75-05-22	204	177	205	10	700	12.7	52	4.9	8.5

BURLINGTON COUNTY

LOCAL IDENT-I-FIER	LAT-I-TUDE	LONG-I-TUDE	SEQ. NO.	GEO-LOGIC UNIT	DATE OF SAMPLE	TIME	ELEV. OF LAND SURFACE DATUM (FT. ABOVE MSL)	TOTAL DEPTH OF HOLE (FT. BELOW LSD)	TOTAL DEPTH OF WELL (FT)	DEPTH TO TOP OF WATER-BEARING ZONE (FT)
TAYLOR 2 OBS	40 01 47	074 59 34	01	211MGRR	75-06-27	1510	10	--	25	--
WILLINGBORO MUA DCB-28	40 03 00	074 53 25	01	211MGRR	75-06-20	1215	43	254	241	140
TENNECO PLASTICS 5-OBS	40 04 07	074 52 46	01	211MGRR	75-06-27	1100	14	--	114	--

LOCAL IDENT-I-FIER	DATE OF SAMPLE	DEPTH TO BOT-TOM OF WATER-BEARING ZONE (FT)	DEPTH TO TOP OF SAMPLE INTER-VAL (FT)	DEPTH TO BOT-TOM OF SAMPLE INTER-VAL (FT)	PUMP OR FLOW PERIOD PRIOR TO SAM-PLING (MIN)	INSTAN-TANEOUS FLOW RATE (GPM)	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	CHEM-ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)
TAYLOR 2 OBS	75-06-27	--	20	25	136	2.0	12.9	228	5.8	3
WILLINGBORO MUA DCB-28	75-06-20	253	221	241	180	16	13.0	153	5.4	1
TENNECO PLASTICS 5-OBS	75-06-27	--	--	--	97	5.0	13.6	104	4.6	5

LOCAL IDENT-I-FIER	DATE OF SAMPLE	TUR-BID-ITY (JTU)	COLOR (PLAT-INUM-COBALT UNITS)	TOTAL ORGANIC NITRO-GEN (N) (MG/L)	AMMONIA NITRO-GEN (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)
TAYLOR 2 OBS	75-06-27	17	7	.15	.00	.01	3.6	.15	3.8	.04
WILLINGBORO MUA DCB-28	75-06-20	31	1	.03	.00	.01	7.4	.03	7.4	.03
TENNECO PLASTICS 5-OBS	75-06-27	13	1	.10	.00	.00	9.0	.10	9.1	.01

LOCAL IDENT-I-FIER	DATE OF SAMPLE	TOTAL ORTHO PHOS-PHORUS (P) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)	DIS-SOL-VED ORGANIC CARBON (C) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	CAR-BONATE (CO3) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)
TAYLOR 2 OBS	75-06-27	.01	2.8	2.8	17	0	21	53	76	59
WILLINGBORO MUA DCB-28	75-06-20	.01	1.7	1.6	2	--	3	19	47	44
TENNECO PLASTICS 5-OBS	75-06-27	.01	1.9	1.8	2	0	2	80	46	44

LOCAL IDENT-I-FIER	DATE OF SAMPLE	TOTAL CAL-CIUM (CA) (MG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	TOTAL MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	TOTAL PO-TAS-SIUM (K) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)
TAYLOR 2 OBS	75-06-27	18	18	7.7	7.5	3.6	9.3	9.3	4.8	62
WILLINGBORO MUA DCB-28	75-06-20	11	11	4.7	4.7	7.5	2.3	2.1	16	15
TENNECO PLASTICS 5-OBS	75-06-27	11	11	5.3	4.5	7.5	2.3	2.3	17	20

LOCAL IDENT-I-FIER	DATE OF SAMPLE	TOTAL FLUO-RIDE (F) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	TOTAL IRON (FE) (UG/L)	DIS-SOLVED IRON (FE) (UG/L)	TOTAL MAN-GANESE (MN) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)
TAYLOR 2 OBS	75-06-27	.0	.0	5.6	161	124	17000	1100	1700	1700
WILLINGBORO MUA DCB-28	75-06-20	.1	.1	9.7	100	68	8300	630	80	70
TENNECO PLASTICS 5-OBS	75-06-27	.1	.1	13	134	77	8300	100	360	360

LOCAL IDENT-I-FIER	DATE OF SAMPLE	SUS-PENDED MAN-GANESE (MN) (UG/L)	TOTAL ARSENIC (AS) (UG/L)	TOTAL CAD-MIUM (CD) (UG/L)	TOTAL CHRO-MIUM (CR) (UG/L)	TOTAL COBALT (CO) (UG/L)	TOTAL COPPER (CU) (UG/L)
TAYLOR 2 OBS	75-06-27	0	0	0	20	9	20
WILLINGBORO MUA DCB-28	75-06-20	10	1	0	20	2	300
TENNECO PLASTICS 5-OBS	75-06-27	0	1	0	30	15	50

LOCAL IDENT-I-FIER	DATE OF SAMPLE	TOTAL LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)	TOTAL NICKEL (NI) (UG/L)	TOTAL ZINC (ZN) (UG/L)
TAYLOR 2 OBS	75-06-27	27	<.5	4	3500
WILLINGBORO MUA DCB-28	75-06-20	20	.5	33	80
TENNECO PLASTICS 5-OBS	75-06-27	71	<.5	20	70

CAMDEN COUNTY

LOCAL IDENT-I-FIER	LAT-I-TUDE	LONG-I-TUDE	SEQ. NO.	GEO-LOGIC UNIT	DATE OF SAMPLE	TIME	ELEV. OF LAND SURFACE DATUM (FT. ABOVE MSL)	TOTAL DEPTH OF WELL (FT)	DEPTH TO TOP OF SAMPLE INTER-VAL (FT)	DEPTH TO BOT-TOM OF SAMPLE INTER-VAL (FT)
NJ ZINC CO 3-DEEP	39 53 13	075 08 04	01	211MGRR	75-03-28	1335	5.0	260	223	260
GLOU CITY CG BASE-USGS 1	39 53 55	075 07 30	01	211MGRR	75-06-26	1100	20	170	162	170
GLOU CITY CG BASE-USGS 2	39 53 55	075 07 30	02	211MGRR	75-06-26	1230	20	89	83	89
SJ PORT COMM NY SHIP SA	39 54 47	075 07 11	01	211MGRR	75-06-25	1500	12	104	87	104
NEW JERSEY WC-CAM 10 OBS	39 57 22	075 05 14	01	211MGRR	75-06-26	1630	11	150	--	--

LOCAL IDENT-I-FIER	DATE OF SAMPLE	PUMP OR FLOW PERIOD PRIOR TO SAM-PLING (MIN)	INSTAN-TANEOUS FLOW RATE (GPM)	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	CHEM-ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	TUR-BID-ITY (JTU)	COLOR (PLAT-INUM-COBALT UNITS)	TOTAL ORGANIC NITRO-GEN (N) (MG/L)
NJ ZINC CO 3-DEEP	75-03-28	1440	310	14.5	613	6.5	--	15	4	.00
GLOU CITY CG BASE-USGS 1	75-06-26	120	8.0	14.8	328	6.8	9	55	1	.00
GLOU CITY CG BASE-USGS 2	75-06-26	105	16	15.3	172	6.5	5	25	5	.00
SJ PORT COMM NY SHIP SA	75-06-25	60	15	15.2	237	6.7	10	180	2	.00
NEW JERSEY WC-CAM 10 OBS	75-06-26	120	12	14.4	404	6.2	12	50	2	.00

LOCAL IDENT-I-FIER	DATE OF SAMPLE	AMMONIA NITRO-GEN (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	TOTAL ORTHO PHOS-PHORUS (P) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)	DIS-SOL-VED ORGANIC CARBON (C) (MG/L)
NJ ZINC CO 3-DEEP	75-03-28	1.7	.01	.00	1.7	1.7	.06	.00	4.4	--
GLOU CITY CG BASE-USGS 1	75-06-26	3.1	.00	.02	3.1	3.1	.14	.01	2.6	2.6
GLOU CITY CG BASE-USGS 2	75-06-26	1.3	.00	.00	1.3	1.3	.01	.01	4.2	2.2
SJ PORT COMM NY SHIP SA	75-06-25	7.3	.00	.08	7.3	7.4	.01	.01	13	7.0
NEW JERSEY WC-CAM 10 OBS	75-06-26	2.8	.01	.23	2.8	3.0	.00	.01	6.6	6.6

LOCAL IDENT-I-FIER	DATE OF SAMPLE	ALKA-LINITY AS CACO3 (MG/L)	CAR-BONATE (CO3) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	TOTAL CAL-CIUM (CA) (MG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	TOTAL MAG-NE-SIUM (MG) (MG/L)
NJ ZINC CO 3-DEEP	75-03-28	226	0	275	130	210	0	--	59	--
GLOU CITY CG BASE-USGS 1	75-06-26	129	0	157	40	120	0	33	33	7.9
GLOU CITY CG BASE-USGS 2	75-06-26	31	0	38	19	51	19	13	13	4.4
SJ PORT COMM NY SHIP SA	75-06-25	95	0	116	37	61	0	15	15	5.8
NEW JERSEY WC-CAM 10 OBS	75-06-26	104	0	127	128	150	47	39	39	13

LOCAL IDENT-I-FIER	DATE OF SAMPLE	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	TOTAL PO-TAS-SIUM (K) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	TOTAL FLUO-RIDE (F) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED SILICA (SIO2) (MG/L)
NJ ZINC CO 3-DEEP	75-03-28	15	36	--	12	38	30	.0	--	12
GLOU CITY CG BASE-USGS 1	75-06-26	7.9	17	5.9	5.9	20	8.9	.4	.4	6.6
GLOU CITY CG BASE-USGS 2	75-06-26	4.4	9.9	2.4	2.4	13	32	.3	.3	4.0
SJ PORT COMM NY SHIP SA	75-06-25	5.6	15	3.3	3.3	17	.7	.4	.4	4.7
NEW JERSEY WC-CAM 10 OBS	75-06-26	13	18	4.1	4.1	19	89	.1	.0	3.9

LOCAL IDENT-I-FIER	DATE OF SAMPLE	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	TOTAL IRON (FE) (UG/L)	DIS-SOLVED IRON (FE) (UG/L)	TOTAL MAN-GANESE (MN) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	SUS-PENDED MAN-GANESE (MN) (UG/L)	TOTAL ARSENIC (AS) (UG/L)
NJ ZINC CO 3-DEEP	75-03-28	356	344	5900	5900	210	210	0	--
GLOU CITY CG BASE-USGS 1	75-06-26	184	184	14000	6500	290	170	110	0
GLOU CITY CG BASE-USGS 2	75-06-26	108	103	4200	4700	240	230	10	0
SJ PORT COMM NY SHIP SA	75-06-25	137	146	26000	26000	620	620	0	5
NEW JERSEY WC-CAM 10 OBS	75-06-26	276	261	14000	4300	4500	8000	500	2

LOCAL IDENT-I-FIER	DATE OF SAMPLE	DIS-SOLVED ARSENIC (AS) (UG/L)	TOTAL CAD-MIUM (CD) (UG/L)	DIS-SOLVED CAD-MIUM (CD) (UG/L)	TOTAL CHRO-MIUM (CR) (UG/L)
NJ ZINC CO 3-DEEP	75-03-28	0	--	0	--
GLOU CITY CG BASE-USGS 1	75-06-26	--	0	--	40
GLOU CITY CG BASE-USGS 2	75-06-26	--	0	--	40
SJ PORT COMM NY SHIP SA	75-06-25	--	1	--	50
NEW JERSEY WC-CAM 10 OBS	75-06-26	--	1	--	30

GROUND-WATER QUALITY RECORDS--Continued

CAMDEN COUNTY--Continued

LOCAL IDENT- I- FIER	DATE OF SAMPLE	DIS- SOLVED CHRO- MIUM (CR) (UG/L)	TOTAL COBALT (CO) (UG/L)	DIS- SOLVED COBALT (CO) (UG/L)	TOTAL COPPER (CU) (UG/L)	DIS- SOLVED COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	DIS- SOLVED LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)	DIS- SOLVED MERCURY (HG) (UG/L)
NJ ZINC CO 3-DEEP	75-03-28	<10	--	0	--	0	--	1	--	<.5
GLOU CITY CG BASE-USGS 1	75-06-26	--	7	--	10	--	4	--	.6	--
GLOU CITY CG BASE-USGS 2	75-06-26	--	2	--	20	--	2	--	<.5	--
SJ PORT COMM NY SHIP 5A	75-06-25	--	0	--	0	--	5	--	<.5	--
NEW JERSEY WC-CAM 10 OBS	75-06-26	--	33	--	440	--	84	--	.6	--

LOCAL IDENT- I- FIER	DATE OF SAMPLE	TOTAL NICKEL (NI) (UG/L)	DIS- SOLVED NICKEL (NI) (UG/L)	TOTAL ZINC (ZN) (UG/L)	DIS- SOLVED ZINC (ZN) (UG/L)
NJ ZINC CO 3-DEEP	75-03-28	--	3	--	10
GLOU CITY CG BASE-USGS 1	75-06-26	4	--	20	--
GLOU CITY CG BASE-USGS 2	75-06-26	9	--	10	--
SJ PORT COMM NY SHIP 5A	75-06-25	5	--	20	--
NEW JERSEY WC-CAM 10 OBS	75-06-26	5	--	140	--

LOCAL IDENT- I- FIER	LAT- I- TUDE	LONG- I- TUDE	SEQ. NO.	GEO- LOGIC UNIT	DATE OF SAMPLE	TIME	ELEV. OF LAND SURFACE DATUM (FT. ABOVE MSL)	TOTAL DEPTH OF HOLE (FT. BELOW LSD)	TOTAL DEPTH OF WELL (FT)	DEPTH TO TOP OF WATER- BEARING ZONE (FT)
NJ ZINC CO 3-DEEP	39 53 13	075 08 04	01	211MGRR	75-03-28	1335	5.0	--	268	--
GLOUCESTER CITY WD 40	39 53 49	075 06 51	01	211MGRR	75-05-09	0815	10	263	262	207
GLOU CITY CG BASE-USGS 1	39 53 55	075 07 38	01	211MGRR	75-06-26	1100	20	--	170	--
GLOU CITY CG BASE-USGS 2	39 53 55	075 07 38	02	211MGRR	75-06-26	1230	20	--	89	--
SJ PORT COMM NY SHIP 5A	39 54 47	075 07 11	01	211MGRR	75-06-25	1500	12	--	104	--
CAMDEN CITY WD-CITY 11	39 55 12	075 06 40	01	211MGRR	75-05-09	0930	13	167	159	107
WEST JERSEY HOSPITAL 1	39 55 [illegible]	075 06 38	01	211MGRR	75-05-09	1330	30	162	140	116
CAMDEN CITY WD-CITY 17	39 55 46	075 05 33	01	211MGRR	75-05-09	0945	34	274	270	221
CAMDEN CITY WD-CITY 1A	39 56 38	075 06 22	01	211MGRR	75-05-09	0850	10	180	175	128
CAMDEN CITY WD-CITY 16	39 57 06	075 05 53	01	211MGRR	75-05-09	0905	23	187	179	144
NEW JERSEY WC-CAM 10 OBS	39 57 22	075 05 14	01	211MGRR	75-06-26	1630	11	--	150	--
CAMDEN CITY WD-PUCHACK 1	39 58 45	075 03 12	01	211MGRR	75-05-09	1015	10	145	141	106
CAMDEN CITY WD-DELAIR 2	39 58 51	075 03 55	01	211MGRR	75-05-09	1120	10	--	141	--
CAMDEN CITY WD-MORRIS 6	39 59 02	075 03 18	01	211MGRR	75-05-09	1135	8.0	148	138	80
CAMDEN CITY WD-MORRIS 1	39 59 43	075 02 12	01	211MGRR	75-05-09	1100	9.0	--	107	--

LOCAL IDENT- I- FIER	DATE OF SAMPLE	DEPTH TO BOT- TOM OF WATER- BEARING ZONE (FT)	DEPTH TO TOP OF SAMPLE INTER- VAL (FT)	DEPTH TO BOT- TOM OF SAMPLE INTER- VAL (FT)	PUMP OR FLOW PERIOD PRIOR TO SAM- PLING (MIN)	INSTAN- TANEOUS FLOW RATE (GPM)	TEMPER- ATURE (DEG C)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)
NJ ZINC CO 3-DEEP	75-03-28	--	223	268	1440	310	14.5	613	6.5	38
GLOUCESTER CITY WD 40	75-05-09	--	221	261	120	900	14.2	290	6.5	20
GLOU CITY CG BASE-USGS 1	75-06-26	--	162	170	120	8.0	14.8	328	6.8	20
GLOU CITY CG BASE-USGS 2	75-06-26	--	83	89	105	16	15.3	172	6.5	13
SJ PORT COMM NY SHIP 5A	75-06-25	--	87	104	60	15	15.2	237	6.7	17
CAMDEN CITY WD-CITY 11	75-05-09	155	124	154	1440	1000	16.0	258	5.8	37
WEST JERSEY HOSPITAL 1	75-05-09	140	119	140	100	--	15.5	968	6.4	94
CAMDEN CITY WD-CITY 17	75-05-09	--	230	265	1440	900	14.1	253	5.9	19
CAMDEN CITY WD-CITY 1A	75-05-09	176	135	170	1440	900	15.1	447	6.1	65
CAMDEN CITY WD-CITY 16	75-05-09	181	149	179	1440	1000	14.7	775	6.4	68
NEW JERSEY WC-CAM 10 OBS	75-06-26	--	--	--	120	12	14.6	404	6.2	19
CAMDEN CITY WD-PUCHACK 1	75-05-09	143	108	138	1440	900	14.9	219	6.4	18
CAMDEN CITY WD-DELAIR 2	75-05-09	--	111	141	1440	1500	15.3	290	7.4	27
CAMDEN CITY WD-MORRIS 6	75-05-09	135	98	133	1440	800	14.8	258	7.0	28
CAMDEN CITY WD-MORRIS 1	75-05-09	--	77	107	1440	900	14.7	290	6.5	22

CAPE MAY COUNTY

LOCAL IDENT-I-FIER	LAT-I-TUDE	LONG-I-TUDE	SEQ. NO.	GEO-LOGIC UNIT	DATE OF SAMPLE	TIME	ELEV. OF LAND SURFACE DATUM (FT. ABOVE MSL)	TOTAL DEPTH OF HOLE (FT. BELOW LSD)	TOTAL DEPTH OF WELL (FT)	DEPTH TO TOP OF WATER-BEARING ZONE (FT)
CAPE MAY CITY WD 1	38 56 43	074 55 33	01	121CNSY	75-01-09	0855	12	--	306	92
				121CNSY	75-05-20	0827	12	--	306	92
NW MAGNESITE CO 2	38 56 43	074 57 55	01	121CNSY	75-01-09	1135	10	270	260	200
				121CNSY	75-05-20	1030	10	270	260	200
NW MAGNESITE CO 1	38 56 45	074 58 03	01	122KRKD	75-01-09	1125	10	30[illegible]	327	296
				122KRKD	75-05-20	1035	10	305	327	296
US COAST GUARD 2	38 56 52	074 53 27	01	121CNSY	75-01-09	1035	11	--	325	--
				121CNSY	75-05-20	0940	11	--	325	--
CAPE MAY CITY WD 2	38 57 01	074 55 20	01	121CNSY	75-01-09	0905	12	322	282	--
CAPE MAY CITY WD 3	38 57 24	074 55 21	01	121CNSY	75-01-09	0923	15	--	276	--
LOWER TWP WC 2	38 59 05	074 56 25	01	121CNSY	75-05-20	1110	12	--	247	--
WILDWOOD WD PINE 2	38 59 32	074 48 51	02	121CNSY	75-01-09	1415	10	364	364	--
				121CNSY	75-05-20	1235	10	364	364	--
WILDWOOD WD RIO GRAND 38	39 01 35	074 53 52	01	122KRKD	75-05-20	1140	10	592	592	--
WILDWOOD WD RIO GRAND 28	39 01 35	074 53 50	01	121CNSY	75-01-09	1330	8.0	271	244	202
WILDWOOD WD RIO GRAND 36	39 01 37	074 53 52	01	112CPMY	75-01-09	1340	9.0	63	63	--
				112CPMY	75-05-20	1145	9.0	63	63	--
WILDWOOD WD RIO GRAND 31	39 01 38	074 53 50	01	112ESRNS	75-01-09	1315	10	141	135	92
STONE HARBOR WD 4	39 03 01	074 45 45	01	122KRKDL	75-01-09	1450	10	965	880	820
				122KRKDL	75-05-20	1345	10	965	880	820
STONE HARBOR WD 3	39 03 23	074 45 25	01	122KRKD	75-01-09	1516	9.0	881	881	--
				122KRKD	75-05-20	1325	9.0	881	881	--
AVALON BORO WD 7-71	39 04 20	074 44 35	02	122KRKD	75-01-09	1540	10	905	861	807
				122KRKD	75-05-20	1400	10	905	861	807
AVALON BORO WD 3-38	39 06 21	074 42 40	01	122KRKDL	75-01-09	1617	10	--	925	--
				122KRKDL	75-05-20	1420	10	--	925	--
SEA ISLE CITY WD 2	39 09 26	074 41 31	01	122KRKDL	75-01-10	0927	7.0	864	864	--
CORSONS INLET WC 1	39 11 52	074 39 27	01	122KRKDL	75-01-10	1005	7.0	834	834	--
				122KRKDL	75-05-20	1445	7.0	834	834	--
OCEAN CITY WSC 7	39 13 43	074 37 55	01	122KRKDL	75-01-10	1055	8.0	810	810	--
OCEAN CITY WSC 14	39 15 00	074 36 45	01	122KRKD	75-05-20	1540	7.0	901	843	807
OCEAN CITY WSC 9	39 15 35	074 36 11	01	122KRKDL	75-01-10	1125	8.0	809	809	--
OCEAN CITY WSC 8	39 16 30	074 34 51	01	122KRKD	75-05-20	1550	7.0	--	810	--
OCEAN CITY WSC 13	39 17 12	074 33 40	01	122KRKD	75-01-10	1140	8.0	902	843	749
OCEAN CITY WSC 11	39 17 26	074 33 52	01	122KRKD	75-05-20	1605	10	--	797	--

LOCAL IDENT-I-FIER	DATE OF SAMPLE	DEPTH TO BOT-TOM OF WATER-BEARING ZONE (FT)	DEPTH TO TOP OF SAMPLE INTER-VAL (FT)	DEPTH TO BOT-TOM OF SAMPLE INTER-VAL (FT)	PUMP OR FLOW PERIOD PRIOR TO SAM-PLING (MIN)	INSTAN-TANEOUS FLOW RATE (GPM)	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)
CAPE MAY CITY WD 1	75-01-09	--	277	306	7	800	14.7	722	7.3	138
	75-05-20	--	277	306	13	800	14.9	773	7.4	140
NW MAGNESITE CO 2	75-01-09	--	235	265	20	--	15.1	798	7.2	161
	75-05-20	--	235	265	10	500	15.1	814	7.5	156
NW MAGNESITE CO 1	75-01-09	327	296	321	10	--	15.7	1660	7.5	344
	75-05-20	327	296	321	180	400	15.8	1450	8.2	250
US COAST GUARD 2	75-01-09	--	295	325	9	--	15.2	322	7.5	30
	75-05-20	--	295	325	15	450	15.4	352	7.7	30
CAPE MAY CITY WD 2	75-01-09	--	174	282	240	800	14.6	291	7.3	22
CAPE MAY CITY WD 3	75-01-09	--	--	276	10	800	14.6	341	7.3	28
LOWER TWP WC 2	75-05-20	--	212	247	180	600	14.5	252	7.7	16
WILDWOOD WD PINE 2	75-01-09	--	304	354	15	--	15.4	623	7.1	122
	75-05-20	--	304	354	15	320	15.4	682	7.5	117
WILDWOOD WD RIO GRAND 38	75-05-20	--	461	590	10	--	16.6	580	8.0	79
WILDWOOD WD RIO GRAND 28	75-01-09	--	209	244	300	1025	13.9	162	7.2	11
WILDWOOD WD RIO GRAND 36	75-01-09	--	48	63	14	180	14.0	160	6.3	17
	75-05-20	--	48	63	20	--	14.4	166	6.1	16
WILDWOOD WD RIO GRAND 31	75-01-09	139	108	135	180	--	13.3	179	7.3	11
STONE HARBOR WD 4	75-01-09	952	830	880	10	--	19.9	314	8.0	26
	75-05-20	952	830	880	12	700	20.0	355	8.7	29
STONE HARBOR WD 3	75-01-09	--	838	878	11	550	19.5	276	8.1	17
	75-05-20	--	838	878	10	550	19.7	307	8.7	20
AVALON BORO WD 7-71	75-01-09	870	821	861	30	600	18.9	250	7.9	14
	75-05-20	870	821	861	360	600	19.9	270	8.6	14
AVALON BORO WD 3-38	75-01-09	--	865	925	10	500	19.6	336	7.9	39
	75-05-20	--	865	925	10	500	18.6	282	8.5	22
SEA ISLE CITY WD 2	75-01-10	--	744	861	19	300	17.6	254	7.8	16
CORSONS INLET WC 1	75-01-10	--	802	834	15	--	18.9	212	7.7	12
	75-05-20	--	802	834	15	140	19.4	237	8.2	13
OCEAN CITY WSC 7	75-01-10	--	760	810	10	--	18.7	194	7.7	9.7
OCEAN CITY WSC 14	75-05-20	840	775	840	12	750	19.3	218	7.7	10
OCEAN CITY WSC 9	75-01-10	--	749	809	14	720	19.2	212	7.5	11
OCEAN CITY WSC 8	75-05-20	--	760	810	300	920	19.3	203	7.7	8.1
OCEAN CITY WSC 13	75-01-10	877	757	840	180	740	19.2	201	7.4	9.9
OCEAN CITY WSC 11	75-05-20	--	747	797	420	750	19.2	186	7.7	7.4

GROUND-WATER QUALITY RECORDS--Continued

CUMBERLAND COUNTY

LOCAL IDENT-I-FIER	LAT-I-TUDE	LONG-I-TUDE	SEQ. NO.	GEO-LOGIC UNIT	DATE OF SAMPLE	TIME	ELEV. OF LAND SURFACE DATUM (FT. ABOVE MSL)	TOTAL DEPTH OF HOLE (FT. BELOW LSD)	TOTAL DEPTH OF WELL (FT)	DEPTH TO TOP OF WATER-BEARING ZONE (FT)
MILLVILLE CITY WD 15	39 23 37	075 02 18	01	121CNSY	75-07-09	1110	9.0	--	110	--
RAGOVIN 3300 FEET	39 25 12	074 52 12	03	211MGRR	74-10-01	1220	91	--	3290	3267
RAGOVIN 3100 FEET	39 25 12	074 52 12	04	211MGRR	74-10-08	1435	91	--	3112	3101
RAGOVIN 2590 FEET	39 25 12	074 52 12	05	211MGRR	74-10-15	1230	91	--	2590	2575
RAGOVIN 2100 FEET	39 25 12	074 52 12	06	211MGRR	74-10-22	1155	91	--	2093	2071
BRIDGETON CITY WD 1A	39 25 55	075 14 15	01	121CNSY	75-07-09	1315	18	120	87	18
VINELAND WSU 9	39 28 11	075 02 36	01	122KRKD	75-07-09	1000	70	--	181	--

LOCAL IDENT-I-FIER	DATE OF SAMPLE	DEPTH TO BOT-TOM OF WATER-BEARING ZONE (FT)	DEPTH TO TOP OF SAMPLE INTER-VAL (FT)	DEPTH TO BOT-TOM OF SAMPLE INTER-VAL (FT)	PUMP OR FLOW PERIOD PRIOR TO SAM-PLING (MIN)	INSTAN-TANEOUS FLOW RATE (GPM)	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TOTAL ACIDITY AS H+ (MG/L)
MILLVILLE CITY WD 15	75-07-09	--	--	--	1440	800	14.8	71	5.5	.3
RAGOVIN 3300 FEET	74-10-01	3290	3280	3290	348	21	42.8	56900	6.6	--
RAGOVIN 3100 FEET	74-10-08	3115	3102	3112	360	9.0	41.4	51300	6.5	--
RAGOVIN 2590 FEET	74-10-15	2590	2580	2590	300	10	37.7	35900	6.7	--
RAGOVIN 2100 FEET	74-10-22	2093	2083	2093	240	23	33.0	30300	6.9	--
BRIDGETON CITY WD 1A	75-07-09	77	57	77	205	400	14.6	112	5.8	1.1
VINELAND WSU 9	75-07-09	--	151	181	1440	900	13.2	84	5.5	.2

LOCAL IDENT-I-FIER	DATE OF SAMPLE	TUR-BID-ITY (JTU)	COLOR (PLAT-INUM-COBALT UNITS)	DENSITY (GM/ML AT 20 C)	TOTAL ORGANIC NITRO-GEN (N) (MG/L)	AMMONIA NITRO-GEN (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)
MILLVILLE CITY WD 15	75-07-09	1	3	--	.03	.01	.00	.21	.04	.25
RAGOVIN 3300 FEET	74-10-01	200	200	1.025	--	--	.01	.01	6.5	6.5
RAGOVIN 3100 FEET	74-10-08	100	400	1.020	--	--	.00	.01	9.0	9.0
RAGOVIN 2590 FEET	74-10-15	200	80	1.010	--	--	.00	.02	10	10
RAGOVIN 2100 FEET	74-10-22	60	4	1.011	--	--	.00	.00	7.5	7.5
BRIDGETON CITY WD 1A	75-07-09	1	1	--	.28	.01	.01	2.7	.29	3.0
VINELAND WSU 9	75-07-09	1	1	--	.00	.74	.01	2.7	.74	3.4

LOCAL IDENT-I-FIER	DATE OF SAMPLE	TOTAL PHOS-PHORUS (P) (MG/L)	TOTAL ORTHO PHOS-PHORUS (P) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	CAR-BONATE (CO3) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	TOTAL ACIDITY AS CACO3 (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)
MILLVILLE CITY WD 15	75-07-09	.04	.02	0	0	0	.0	15	8	8
RAGOVIN 3300 FEET	74-10-01	.04	.02	126	0	153	62	--	--	--
RAGOVIN 3100 FEET	74-10-08	.02	.01	126	0	154	78	--	--	--
RAGOVIN 2590 FEET	74-10-15	.04	.01	94	0	115	37	--	--	--
RAGOVIN 2100 FEET	74-10-22	.01	.00	132	0	161	32	--	--	--
BRIDGETON CITY WD 1A	75-07-09	.01	.01	0	0	0	.0	55	19	19
VINELAND WSU 9	75-07-09	.01	.01	0	0	0	.0	10	10	10

LOCAL IDENT-I-FIER	DATE OF SAMPLE	TOTAL CAL-CIUM (CA) (MG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	TOTAL MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED LITHIUM (LI) (UG/L)	TOTAL SODIUM (NA) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	TOTAL PO-TAS-SIUM (K) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)
MILLVILLE CITY WD 15	75-07-09	3.6	1.9	.8	.7	--	3.4	3.4	1.4	1.4
RAGOVIN 3300 FEET	74-10-01	2200	--	460	--	980	12000	--	120	--
RAGOVIN 3100 FEET	74-10-08	1600	--	380	--	400	10000	--	110	--
RAGOVIN 2590 FEET	74-10-15	920	--	400	--	140	7000	--	92	--
RAGOVIN 2100 FEET	74-10-22	700	--	210	--	<60	5900	--	150	--
BRIDGETON CITY WD 1A	75-07-09	8.3	3.0	2.7	2.7	--	5.4	5.4	2.0	2.0
VINELAND WSU 9	75-07-09	3.8	2.0	1.3	1.1	--	8.8	8.8	1.8	1.8

LOCAL IDENT-I-FIER	DATE OF SAMPLE	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	BROMIDE (BR) (MG/L)	TOTAL FLUO-RIDE (F) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	TOTAL IRON (FE) (UG/L)
MILLVILLE CITY WD 15	75-07-09	4.9	16	--	--	.1	11	51	40	710
RAGOVIN 3300 FEET	74-10-01	22000	21	100	1.7	--	11	38200	--	45000
RAGOVIN 3100 FEET	74-10-08	18000	100	130	1.3	--	12	36900	--	26000
RAGOVIN 2590 FEET	74-10-15	12000	30	77	1.0	--	10	25500	--	20000
RAGOVIN 2100 FEET	74-10-22	11000	12	55	.6	--	11	19700	--	6000
BRIDGETON CITY WD 1A	75-07-09	11	13	--	--	.1	9.4	68	68	490
VINELAND WSU 9	75-07-09	11	9.1	--	--	.0	9.4	62	66	340

GROUND-WATER QUALITY RECORDS--Continued

CUMBERLAND COUNTY--Continued

LOCAL IDENT- I- FIER	DATE OF SAMPLE	DIS- SOLVED IRON (FE) (UG/L)	TOTAL MAN- GANESE (MN) (UG/L)	DIS- SOLVED MAN- GANESE (MN) (UG/L)	SUS- PENDED MAN- GANESE (MN) (UG/L)	DIS- SOLVED ALUM- INUM (AL) (UG/L)	TOTAL ARSENIC (AS) (UG/L)
MILLVILLE CITY WD 15	75-07-09	710	30	20	10	--	--
RAGOVIN 3300 FEET	74-10-01	45000	720	620	--	48000	2
RAGOVIN 3100 FEET	74-10-08	20000	--	200	--	800	<1
RAGOVIN 2590 FEET	74-10-15	20000	400	160	--	47000	9
RAGOVIN 2100 FEET	74-10-22	4400	230	85	--	420	<1
BRIDGETON CITY WD 1A	75-07-09	490	40	40	0	--	--
VINELAND WSU 9	75-07-09	330	40	40	0	--	--

LOCAL IDENT- I- FIER	DATE OF SAMPLE	DIS- SOLVED BARIUM (BA) (UG/L)	DIS- SOLVED BERYL- LIUM (BE) (UG/L)	DIS- SOLVED BISMUTH (BI) (UG/L)	DIS- SOLVED BORON (B) (UG/L)	TOTAL CAD- MIUM (CD) (UG/L)	DIS- SOLVED CAD- MIUM (CD) (UG/L)	TOTAL CHRO- MIUM (CR) (UG/L)	DIS- SOLVED CHRO- MIUM (CR) (UG/L)	TOTAL COBALT (CO) (UG/L)
RAGOVIN 3300 FEET	74-10-01	610	<60	<180	1000	0	0	210	210	40
RAGOVIN 3100 FEET	74-10-08	1300	<35	<160	900	0	0	40	40	2
RAGOVIN 2590 FEET	74-10-15	4500	<23	<110	1500	0	0	--	250	90
RAGOVIN 2100 FEET	74-10-22	6100	<19	<90	1200	0	0	20	20	0

LOCAL IDENT- I- FIER	DATE OF SAMPLE	DIS- SOLVED COBALT (CO) (UG/L)	TOTAL COPPER (CU) (UG/L)	DIS- SOLVED COPPER (CU) (UG/L)	DIS- SOLVED GALLIUM (GA) (UG/L)	DIS- SOLVED GER- MANIUM (GE) (UG/L)	TOTAL LEAD (PB) (UG/L)	DIS- SOLVED LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)	DIS- SOLVED MOLYB- DENUM (MO) (UG/L)
RAGOVIN 3300 FEET	74-10-01	40	--	2900	<60	<200	--	380	1.4	<60
RAGOVIN 3100 FEET	74-10-08	2	90	<35	<35	<160	5	5	7.1	<35
RAGOVIN 2590 FEET	74-10-15	<75	2900	2200	<23	<110	--	600	2.5	<23
RAGOVIN 2100 FEET	74-10-22	0	40	<19	<19	<90	1	1	5.9	<19

LOCAL IDENT- I- FIER	DATE OF SAMPLE	TOTAL NICKEL (NI) (UG/L)	DIS- SOLVED NICKEL (NI) (UG/L)	DIS- SOLVED SILVER (AG) (UG/L)	DIS- SOLVED STRON- TIUM (SR) (UG/L)	DIS- SOLVED TIN (SN) (UG/L)	DIS- SOLVED TI- TANIUM (TI) (UG/L)
RAGOVIN 3300 FEET	74-10-01	--	300	<18	190000	<180	1800
RAGOVIN 3100 FEET	74-10-08	8	8	<16	160000	<160	<110
RAGOVIN 2590 FEET	74-10-15	260	280	<11	110000	<110	4400
RAGOVIN 2100 FEET	74-10-22	11	11	<9	70000	<90	<62

LOCAL IDENT- I- FIER	DATE OF SAMPLE	DIS- SOLVED VANA- DIUM (V) (UG/L)	TOTAL ZINC (ZN) (UG/L)	DIS- SOLVED ZINC (ZN) (UG/L)	DIS- SOLVED ZIR- CONIUM (ZR) (UG/L)
RAGOVIN 3300 FEET	74-10-01	<180	3200	2300	<280
RAGOVIN 3100 FEET	74-10-08	<110	3000	1700	<240
RAGOVIN 2590 FEET	74-10-15	<75	2600	1500	<160
RAGOVIN 2100 FEET	74-10-22	<62	1800	1300	<140

GROUND-WATER QUALITY RECORDS--Continued

CUMBERLAND COUNTY--Continued

LOCAL IDENT-I-FIER	LAT-I-TUDE	LONG-I-TUDE	SEQ. NO.	GEO-LOGIC UNIT	DATE OF SAMPLE	TIME	ELEV. OF LAND SURFACE DATUM (FT. ABOVE MSL)	TOTAL DEPTH OF HOLE (FT. BELOW LSD)	TOTAL DEPTH OF WELL (FT)	DEPTH TO TOP OF WATER-BEARING ZONE (FT)
NJDIA LEESBURG SP FARM	39 13 56	074 57 51	01	121CNSY	75-05-08	0900	13	--	268	--
FORTESQUE REALTY 4	39 14 20	075 10 23	02	122KRKD	75-05-08	1135	8.0	--	303	--
W SANDYS BEACH	39 16 18	075 13 54	01	124PNPN	75-05-08	1025	5.0	--	402	--
MONEY ISL MARINA 1	39 17 04	075 14 15	01	124PNPN	75-05-08	1100	4.0	--	370	--
SEA BREEZE TAVERN	39 19 43	075 19 18	01	122KRKD	75-05-08	1245	4.0	--	287	--
MILLVILLE CITY WD 15	39 23 37	075 02 18	01	121CNSY	75-07-09	1110	9.0	--	110	--
BRIDGETON CITY WD 2R	39 24 30	075 13 13	01	121CKKD	75-05-08	1500	20	--	98	--
RAGOVIN 3300 FEET	39 25 12	074 52 12	03	211MGRR	74-10-01	1220	91	--	3290	3267
RAGOVIN 3100 FEET	39 25 12	074 52 12	04	211MGRR	74-10-08	1435	91	--	3112	3101
RAGOVIN 2590 FEET	39 25 12	074 52 12	05	211MGRR	74-10-15	1230	91	--	2590	2575
RAGOVIN 2100 FEET	39 25 12	074 52 12	06	211MGRR	74-10-22	1155	91	--	2093	2071
BRIDGETON CITY WD 1A	39 25 55	075 14 15	01	121CNSY	75-07-09	1315	18	120	87	18
VINELAND WSU 9	39 28 11	075 02 36	01	122KRKD	75-07-09	1000	70	--	181	--

LOCAL IDENT-I-FIER	DATE OF SAMPLE	DEPTH TO BOT-TOM OF WATER-BEARING ZONE (FT)	DEPTH TO TOP OF SAMPLE INTER-VAL (FT)	DEPTH TO BOT-TOM OF SAMPLE INTER-VAL (FT)	PUMP OR FLOW PERIOD PRIOR TO SAM-PLING (MIN)	INSTAN-TANEOUS FLOW RATE (GPM)	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)
NJDIA LEESBURG SP FARM	75-05-08	--	248	268	10	190	14.8	170	7.9	4.8
FORTESQUE REALTY 4	75-05-08	--	283	303	15	150	15.4	233	7.8	7.2
W SANDYS BEACH	75-05-08	--	378	402	15	90	15.0	762	8.4	120
MONEY ISL MARINA 1	75-05-08	--	350	370	13	--	16.2	714	8.1	78
SEA BREEZE TAVERN	75-05-08	--	--	287	17	--	15.5	713	8.0	67
MILLVILLE CITY WD 15	75-07-09	--	--	--	1440	800	14.8	71	5.5	4.9
BRIDGETON CITY WD 2R	75-05-08	--	72	98	15	700	14.1	82	4.3	6.8
RAGOVIN 3300 FEET	74-10-01	3290	3280	3290	348	21	42.8	56900	6.6	22000
RAGOVIN 3100 FEET	74-10-08	3115	3102	3112	360	9.0	41.4	51300	6.5	18000
RAGOVIN 2590 FEET	74-10-15	2590	2580	2590	380	10	37.7	35900	6.7	12000
RAGOVIN 2100 FEET	74-10-22	2093	2083	2093	240	23	33.0	30300	6.9	11000
BRIDGETON CITY WD 1A	75-07-09	77	57	77	205	400	14.6	112	5.8	11
VINELAND WSU 9	75-07-09	--	151	181	1440	900	13.2	84	5.5	11

GROUND-WATER QUALITY RECORDS--Continued

GLOUCESTER COUNTY

LOCAL IDENT-I-FIER	LAT-I-TUDE	LONG-I-TUDE	SEQ. NO.	GEO-LOGIC UNIT	DATE OF SAMPLE	TIME	ELEV. OF LAND SURFACE DATUM (FT. ABOVE MSL)	TOTAL DEPTH OF WELL (FT)	DEPTH TO TOP OF SAMPLE INTER-VAL (FT)	DEPTH TO BOT-TOM OF SAMPLE INTER-VAL (FT)
MONSANTO 1 OBS	39 47 37	075 27 22	01	211MGRR	75-06-25	1110	8.0	90	70	90
EI DUPONT REPAUNO 6	39 49 44	075 17 34	01	211MGRR	75-03-28	1140	18	109	84	109

LOCAL IDENT-I-FIER	DATE OF SAMPLE	PUMP OR FLOW PERIOD PRIOR TO SAM-PLING (MIN)	INSTAN-TANEOUS FLOW RATE (GPM)	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	CHEM-ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	TUR-BID-ITY (JTU)	COLOR (PLAT-INUM-COBALT UNITS)	TOTAL ORGANIC NITRO-GEN (N) (MG/L)
MONSANTO 1 OBS	75-06-25	58	16	13.0	60	6.1	7	180	1	.02
EI DUPONT REPAUNO 6	75-03-28	60	325	13.3	630	5.1	--	1	1	.00

LOCAL IDENT-I-FIER	DATE OF SAMPLE	AMMONIA NITRO-GEN (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	TOTAL ORTHO PHOS-PHORUS (P) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)	DIS-SOL-VED ORGANIC CARBON (C) (MG/L)
MONSANTO 1 OBS	75-06-25	.36	.00	.08	.38	.46	.22	.07	4.7	4.7
EI DUPONT REPAUNO 6	75-03-28	.29	.01	.78	.29	1.1	.00	.00	1.0	--

LOCAL IDENT-I-FIER	DATE OF SAMPLE	ALKA-LINITY AS CACO3 (MG/L)	CAR-BONATE (CO3) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	TOTAL CAL-CIUM (CA) (MG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	TOTAL MAG-NE-SIUM (MG) (MG/L)
MONSANTO 1 OBS	75-06-25	17	0	21	27	17	0	3.8	3.7	2.0
EI DUPONT REPAUNO 6	75-03-28	9	0	11	140	59	50	--	12	--

LOCAL IDENT-I-FIER	DATE OF SAMPLE	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	TOTAL PO-TAS-SIUM (K) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	TOTAL FLUO-RIDE (F) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED SILICA (SIO2) (MG/L)
MONSANTO 1 OBS	75-06-25	2.0	5.2	1.1	1.1	7.2	.1	.0	.0	21
EI DUPONT REPAUNO 6	75-03-28	7.1	92	--	3.8	160	22	.0	--	8.9

LOCAL IDENT-I-FIER	DATE OF SAMPLE	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	TOTAL IRON (FE) (UG/L)	DIS-SOLVED IRON (FE) (UG/L)	TOTAL MAN-GANESE (MN) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	SUS-PENDED MAN-GANESE (MN) (UG/L)	TOTAL ARSENIC (AS) (UG/L)
MONSANTO 1 OBS	75-06-25	68	72	22000	21000	280	280	0	1
EI DUPONT REPAUNO 6	75-03-28	333	312	120	50	180	180	0	--

LOCAL IDENT-I-FIER	DATE OF SAMPLE	DIS-SOLVED ARSENIC (AS) (UG/L)	TOTAL CAD-MIUM (CD) (UG/L)	DIS-SOLVED CAD-MIUM (CD) (UG/L)	TOTAL CHRO-MIUM (CR) (UG/L)
MONSANTO 1 OBS	75-06-25	--	0	--	60
EI DUPONT REPAUNO 6	75-03-28	1	--	1	--

LOCAL IDENT-I-FIER	DATE OF SAMPLE	DIS-SOLVED CHRO-MIUM (CR) (UG/L)	TOTAL COBALT (CO) (UG/L)	DIS-SOLVED COBALT (CO) (UG/L)	TOTAL COPPER (CU) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)	DIS-SOLVED MERCURY (HG) (UG/L)
MONSANTO 1 OBS	75-06-25	--	1	--	0	--	0	--	<.5	--
EI DUPONT REPAUNO 6	75-03-28	<10	--	9	--	28	--	1	--	<.5

LOCAL IDENT-I-FIER	DATE OF SAMPLE	TOTAL NICKEL (NI) (UG/L)	DIS-SOLVED NICKEL (NI) (UG/L)	TOTAL ZINC (ZN) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)
MONSANTO 1 OBS	75-06-25	1	--	20	--
EI DUPONT REPAUNO 6	75-03-28	--	13	--	45

GLOUCESTER COUNTY--Continued

LOCAL IDENT-I-FIER	LAT-I-TUDE	LONG-I-TUDE	SEQ. NO.	GEO-LOGIC UNIT	DATE OF SAMPLE	TIME	ELEV. OF LAND SURFACE DATUM (FT. ABOVE MSL)	TOTAL DEPTH OF HOLE (FT. BELOW LSD)	TOTAL DEPTH OF WELL (FT)	DEPTH TO TOP OF WATER-BEARING ZONE (FT)
CLAYTON BORO WD 3	39 39 12	075 05 22	01	211MGRR	75-05-13	1040	133	1010	800	740
CLAYTON BORO WD 4	39 40 13	075 05 58	01	211MGRR	75-05-13	1020	140	943	740	657
OWENS ILLINOIS 1	39 41 47	075 07 14	01	211MGRR	75-05-13	0935	144	650	647	585
GLASSBORO BORO WD 3	39 42 05	075 07 53	01	211MGRR	74-10-07	1010	150	--	615	544
GLASSBORO BORO WD 4	39 43 08	075 07 02	01	211MGRR	74-10-07	1025	146	--	599	--
PITMAN BORO WD P1	39 44 05	075 07 45	01	211MGRR	75-05-13	0840	140	514	514	400
SO JERSEY WS CO 3	39 44 08	075 13 30	02	211MGRR	74-10-07	1105	35	270	268	225
				211MGRR	75-05-13	1125	35	270	268	225
SWEDESBORO BORO WD 3	39 44 34	075 18 43	01	211MGRR	75-05-13	1242	70	344	315	234
SWEDESBORO BORO WD 2	39 44 38	075 18 33	01	211MGRR	75-05-13	1220	30	439	244	190
MONSANTO 1 OBS	39 47 37	075 27 22	01	211MGRR	75-06-25	1110	8.0	--	90	--
WENONAH BORO WD 1	39 47 43	075 09 02	01	211MGRR	75-05-13	0800	80	321	320	205
PENNS GROVE WC-BRIDGPT 2	39 47 55	075 21 08	02	211MGRR	75-05-13	1330	20	127	88	60
EI DUPONT REPAUNO 6	39 49 44	075 17 34	01	211MGRR	75-03-28	1140	10	--	109	--
WOODBURY WD RAILROAD 5	39 49 50	075 09 09	01	211MGRR	75-05-09	1412	35	--	457	--
MOBIL OIL-GREENWICH 44	39 49 58	075 15 12	01	211MGRR	74-10-07	1450	20	--	139	--
MOBIL OIL-GREENWICH 40	39 50 12	075 15 20	01	211MGRR	75-05-13	1535	20	267	228	180
MOBIL OIL-GREENWICH 47	39 50 36	07. 15 01	01	211MGRR	75-05-13	1525	20	247	245	217
WOODBURY CITY WD-TATUM 4	39 50 44	075 09 07	01	211MGRR	75-05-09	1445	20	171	167	148
NATIONAL PARK BORO WD 2	39 51 56	075 10 53	01	211MGRR	75-05-09	1538	30	307	282	196

LOCAL IDENT-I-FIER	DATE OF SAMPLE	DEPTH TO BOT-TOM OF WATER-BEARING ZONE (FT)	DEPTH TO TOP OF SAMPLE INTER-VAL (FT)	DEPTH TO BOT-TOM OF SAMPLE INTER-VAL (FT)	PUMP OR FLOW PERIOD PRIOR TO SAM-PLING (MIN)	INSTAN-TANEOUS FLOW RATE (GPM)	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)
CLAYTON BORO WD 3	75-05-13	802	746	800	10	700	20.7	1040	8.5	133
CLAYTON BORO WD 4	75-05-13	778	670	740	10	1250	19.7	881	8.5	92
OWENS ILLINOIS 1	75-05-13	647	607	647	12	500	19.0	762	8.5	61
GLASSBORO BORO WD 3	74-10-07	--	562	612	10	750	18.6	672	8.0	62
GLASSBORO BORO WD 4	74-10-07	--	549	599	60	--	18.2	505	8.0	28
PITMAN BORO WD P1	75-05-13	--	468	514	1360	400	16.8	520	8.4	33
SO JERSEY WS CO 3	74-10-07	266	234	265	10	--	15.0	943	7.7	149
	75-05-13	266	234	265	14	--	15.1	952	8.3	148
SWEDESBORO BORO WD 3	75-05-13	312	241	312	10	750	14.5	395	7.4	46
SWEDESBORO BORO WD 2	75-05-13	258	217	240	10	400	14.3	440	7.5	60
MONSANTO 1 OBS	75-06-25	--	70	90	60	16	13.0	60	6.1	7.2
WENONAH BORO WD 1	75-05-13	--	286	320	13	550	14.2	357	8.2	14
PENNS GROVE WC-BRIDGPT 2	75-05-13	84	65	85	10	95	13.6	229	7.0	15
EI DUPONT REPAUNO 6	75-03-28	--	84	109	60	325	13.3	630	5.1	160
WOODBURY WD RAILROAD 5	75-05-09	--	405	457	12	850	14.4	395	7.6	48
MOBIL OIL-GREENWICH 44	74-10-07	--	116	136	60	--	15.0	519	4.0	48
MOBIL OIL-GREENWICH 40	75-05-13	233	195	225	360	--	15.1	1140	4.3	214
MOBIL OIL-GREENWICH 47	75-05-13	262	220	240	720	--	14.6	572	6.1	141
WOODBURY CITY WD-TATUM 4	75-05-09	171	131	167	18	350	13.4	347	7.4	18
NATIONAL PARK BORO WD 2	75-05-09	288	241	282	12	800	13.5	327	7.1	30

GROUND-WATER QUALITY RECORDS--Continued

MIDDLESEX COUNTY

LOCAL IDENT-I-FIER	LAT-I-TUDE	LONG-I-TUDE	SEQ. NO.	GEO-LOGIC UNIT	DATE OF SAMPLE	TIME	ELEV. OF LAND SURFACE DATUM (FT. ABOVE MSL)	TOTAL DEPTH OF HOLE (FT. BELOW LSD)	TOTAL DEPTH OF WELL (FT)	DEPTH TO TOP OF WATER-BEARING ZONE (FT)
PERTH AMBOY WW 5	40 25 37	074 20 02	01	211MGTY	75-06-03	1355	15	--	80	50
PERTH AMBOY WW 2	40 25 43	074 20 10	01	211FRNG	75-06-03	1400	70	--	260	205
SAYREVILLE BORO WD D	40 26 10	074 19 52	01	211MGTY	75-06-03	1435	29	--	75	--
SAYREVILLE BORO WD I	40 26 26	074 19 36	01	211MGTY	75-06-03	1430	50	109	99	65
SOUTH AMBOY CITY WD 8	40 28 22	074 16 30	01	211FRNG	75-06-03	1300	10	241	237	190
SOUTH AMBOY CITY WD 9	40 28 26	074 16 31	01	211OOBG	75-06-03	1300	10	--	40	--
NATIONAL LEAD CO 4	40 28 31	074 18 15	01	211FRNG	75-06-03	1055	109	--	251	--
NATIONAL LEAD CO 3	40 28 42	074 18 11	01	211FRNG	75-06-03	1105	120	--	270	--
ANACONDA COPPER CO 11	40 30 20	074 16 43	01	211FRNG	75-06-03	1020	20	--	40	--
ANACONDA COPPER CO 16A	40 30 29	074 16 41	01	211FRNG	75-06-03	1015	25	--	58	--
SWIFT AND CO 1	40 32 33	074 16 33	01	211FRNG	75-06-03	0900	30	59	59	--

LOCAL IDENT-I-FIER	DATE OF SAMPLE	DEPTH TO BOT-TOM OF WATER-BEARING ZONE (FT)	DEPTH TO TOP OF SAMPLE INTER-VAL (FT)	DEPTH TO BOT-TOM OF SAMPLE INTER-VAL (FT)	PUMP OR FLOW PERIOD PRIOR TO SAM-PLING (MIN)	INSTAN-TANEOUS FLOW RATE (GPM)	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)
PERTH AMBOY WW 5	75-06-03	--	50	80	1440	600	11.2	291	4.4	23
PERTH AMBOY WW 2	75-06-03	--	205	260	1440	700	12.1	126	6.0	28
SAYREVILLE BORO WD D	75-06-03	--	64	75	305	--	21.7	597	4.2	69
SAYREVILLE BORO WD I	75-06-03	93	83	96	1080	--	12.1	162	4.5	13
SOUTH AMBOY CITY WD 8	75-06-03	233	210	234	390	650	12.0	57	6.1	4.0
SOUTH AMBOY CITY WD 9	75-06-03	--	33	40	10	450	11.9	162	4.4	15
NATIONAL LEAD CO 4	75-06-03	--	270	251	5	700	11.9	51	6.4	4.0
NATIONAL LEAD CO 3	75-06-03	--	240	270	6	700	11.9	174	6.0	0.9
ANACONDA COPPER CO 11	75-06-03	--	29	40	20	--	12.7	965	6.6	72
ANACONDA COPPER CO 16A	75-06-03	--	43	58	9	150	14.1	1130	6.7	136
SWIFT AND CO 1	75-06-03	--	39	59	360	150	13.0	756	4.9	86

MONMOUTH COUNTY

LOCAL IDENT-I-FIER	LAT-I-TUDE	LONG-I-TUDE	SEQ. NO.	GEO-LOGIC UNIT	DATE OF SAMPLE	TIME	ELEV. OF LAND SURFACE DATUM (FT. ABOVE MSL)	TOTAL DEPTH OF HOLE (FT. BELOW LSD)	TOTAL DEPTH OF WELL (FT)	DEPTH TO TOP OF WATER-BEARING ZONE (FT)
FREEHOLD BORO WD 3	40 16 33	074 17 20	01	211WNRP	75-07-10	1530	110	--	567	--
KEYPORT BORO WD 5	40 26 24	074 11 45	01	211ODRG	75-07-10	1130	10	261	261	201
KEYPORT BORO WD 6	40 26 26	074 11 42	05	211ODRG	75-07-10	1000	10	297	280	--
UNION BEACH BORO WD 1-62	40 26 32	074 10 51	01	211ODRG	75-07-10	1215	10	300	290	224

LOCAL IDENT-I-FIER	DATE OF SAMPLE	DEPTH TO BOT-TOM OF WATER-BEARING ZONE (FT)	DEPTH TO TOP OF SAMPLE INTER-VAL (FT)	DEPTH TO BOT-TOM OF SAMPLE INTER-VAL (FT)	PUMP OR FLOW PERIOD PRIOR TO SAM-PLING (MIN)	INSTAN-TANEOUS FLOW RATE (GPM)	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TUR-BID-ITY (JTU)
FREEHOLD BORO WD 3	75-07-10	--	402	567	1440	1000	14.2	42	6.0	13
KEYPORT BORO WD 5	75-07-10	259	204	261	60	825	13.4	120	6.2	10
KEYPORT BORO WD 6	75-07-10	278	247	277	150	950	13.0	198	6.1	52
UNION BEACH BORO WD 1-62	75-07-10	280	235	285	300	700	13.6	363	6.2	6

LOCAL IDENT-I-FIER	DATE OF SAMPLE	COLOR (PLAT-INUM-COBALT UNITS)	TOTAL ORGANIC NITRO-GEN (N) (MG/L)	AMMONIA NITRO-GEN (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	TOTAL ORTHO PHOS-PHORUS (P) (MG/L)
FREEHOLD BORO WD 3	75-07-10	0	.04	.01	.00	.00	.05	.05	.06	.03
KEYPORT BORO WD 5	75-07-10	3	.06	.04	.00	.01	.10	.11	.03	.01
KEYPORT BORO WD 6	75-07-10	7	.06	.04	.00	.00	.10	.10	.10	.03
UNION BEACH BORO WD 1-62	75-07-10	20	.01	.08	.00	.01	.09	.10	.11	.02

LOCAL IDENT-I-FIER	DATE OF SAMPLE	ALKA-LINITY AS $CACO_3$ (MG/L)	CAR-BONATE (CO_3) (MG/L)	BICAR-BONATE (HCO_3) (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	TOTAL CAL-CIUM (CA) (MG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)
FREEHOLD BORO WD 3	75-07-10	10	0	12	19	9	0	5.5	2.6	.7
KEYPORT BORO WD 5	75-07-10	14	0	17	17	37	23	10	10	2.8
KEYPORT BORO WD 6	75-07-10	13	0	16	20	51	38	16	14	4.0
UNION BEACH BORO WD 1-62	75-07-10	14	0	17	17	77	63	21	21	5.9

LOCAL IDENT-I-FIER	DATE OF SAMPLE	DIS-SOLVED SODIUM (NA) (MG/L)	TOTAL PO-TAS-SIUM (K) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)
FREEHOLD BORO WD 3	75-07-10	1.7	.9	.9	2.0	7.0	.0	8.2	41	33
KEYPORT BORO WD 5	75-07-10	4.3	1.4	1.6	27	11	.0	7.9	69	88
KEYPORT BORO WD 6	75-07-10	10	1.6	1.6	50	12	.0	8.4	142	130
UNION BEACH BORO WD 1-62	75-07-10	30	1.9	1.9	99	19	.0	8.5	237	197

LOCAL IDENT-I-FIER	DATE OF SAMPLE	TOTAL IRON (FE) (UG/L)	DIS-SOLVED IRON (FE) (UG/L)	TOTAL MAN-GANESE (MN) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	SUS-PENDED MAN-GANESE (MN) (UG/L)
FREEHOLD BORO WD 3	75-07-10	3600	3600	50	50	0
KEYPORT BORO WD 5	75-07-10	15000	15000	230	220	10
KEYPORT BORO WD 6	75-07-10	22000	22000	310	310	0
UNION BEACH BORO WD 1-62	75-07-10	3100	3100	470	460	10

MONMOUTH COUNTY--Continued

LOCAL IDENT-I-FIER	LAT-I-TUDE	LONG-I-TUDE	SEQ. NO.	GEO-LOGIC UNIT	DATE OF SAMPLE	TIME	ELEV. OF LAND SURFACE DATUM (FT. ABOVE MSL)	TOTAL DEPTH OF HOLE (FT. BELOW LSD)	TOTAL DEPTH OF WELL (FT)	DEPTH TO TOP OF WATER-BEARING ZONE (FT)
BRIELLE BORO WD 1	40 06 44	074 03 44	01	122KRKD	75-05-21	1435	33	154	153	129
BRIELLE BORO WD 2	40 06 45	074 03 45	01	211EGLS	75-05-21	1445	33	792	755	680
MANASQUAN BORO WD 6	40 07 10	074 03 29	02	122KRKD	75-05-21	1455	10	--	100	--
MANASQUAN BORO WD 2R	40 07 12	074 03 20	02	122KRKD	75-05-21	1450	21	122	110	102
SEA GIRT BORO WD 6	40 08 01	074 02 31	01	122KRKD	75-05-21	1530	21	--	130	--
SEA GIRT BORO WD 2	40 08 02	074 02 28	01	122KRKD	75-05-21	1515	21	--	159	--
SEA GIRT BORO WD 5	40 08 04	074 02 27	01	211EGLS	75-05-21	1507	20	--	710	640
SPRING LAKE BORO WD 2	40 08 49	074 02 07	03	211EGLS	75-05-22	0840	15	--	707	--
SPRING LAKE BORO WD 1	40 08 49	074 02 07	01	211EGLS	75-05-22	0830	15	750	711	623
SPRING LAKE BORO WD 3	40 09 15	074 01 46	01	211EGLS	75-05-22	0855	20	--	705	640
SPRING LAKE BORO WD 4	40 09 52	074 01 49	01	211EGLS	75-05-22	0910	10	675	675	--
FREEHOLD BORO WD 3	40 16 33	074 17 28	01	211MGRR	75-07-10	1530	110	--	567	--
HIGHLANDS WD-SPRING	40 23 59	073 59 47	01	125MNRS	75-05-22	1110	--	--	6.0	--
HIGHLANDS BORO WD 2-NEW	40 24 00	073 59 12	01	211MGRR	75-05-22	1105	11	671	665	610
ATL HIGHLANDS BORO WD 3	40 24 41	074 02 33	01	211MGRR	75-05-22	1130	20	581	576	529
ATL HIGHLANDS BORO WD 2	40 24 41	074 02 34	01	211EGLS	75-05-22	1135	15	--	200	--
W KEANSBURG WC-HOLMDEL 4	40 24 44	074 10 15	01	211MGRR	75-05-22	1340	65	690	690	629
W KEANSBURG WC-HAZLET 1	40 25 33	074 09 33	01	211ODRG	75-05-22	1310	59	--	367	--
KEYPORT BORO WD 5	40 26 24	074 11 45	01	211ODRG	75-07-10	1130	10	261	261	201
KEYPORT BORO WD 6	40 26 26	074 11 42	05	211ODRG	75-05-22	1235	10	297	280	--
UNION BEACH BORO WD 1-62	40 26 32	074 10 51	01	211ODRG	75-07-10	1000	10	297	280	--
				211ODRG	75-05-22	1205	10	300	290	224
				211ODRG	75-07-10	1215	10	300	290	224
US ARMY-FT HANCOCK 2	40 27 00	073 59 58	01	211MGRR	75-05-22	1025	11	754	724	715
US ARMY-FT HANCOCK 5	40 27 05	073 59 59	01	211MGRR	75-05-22	1045	14	--	830	--

LOCAL IDENT-I-FIER	DATE OF SAMPLE	DEPTH TO BOTTOM OF WATER-BEARING ZONE (FT)	DEPTH TO TOP OF SAMPLE INTER-VAL (FT)	DEPTH TO BOTTOM OF SAMPLE INTER-VAL (FT)	PUMP OR FLOW PERIOD PRIOR TO SAM-PLING (MIN)	INSTAN-TANEOUS FLOW RATE (GPM)	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)
BRIELLE BORO WD 1	75-05-21	150	130	150	--	--	12.7	65	6.1	13
BRIELLE BORO WD 2	75-05-21	751	690	750	--	--	19.6	201	7.9	3.2
MANASQUAN BORO WD 6	75-05-21	--	--	100	60	500	12.6	58	5.3	14
MANASQUAN BORO WD 2R	75-05-21	110	103	110	90	500	13.6	77	5.1	17
SEA GIRT BORO WD 6	75-05-21	--	80	130	300	1000	14.0	73	5.9	15
SEA GIRT BORO WD 2	75-05-21	--	--	--	5	400	13.6	65	6.3	13
SEA GIRT BORO WD 5	75-05-21	--	660	710	7	400	18.5	189	7.9	3.0
SPRING LAKE BORO WD 2	75-05-22	--	640	707	9	400	19.0	192	7.6	2.9
SPRING LAKE BORO WD 1	75-05-22	707	631	711	60	550	19.0	192	7.7	3.1
SPRING LAKE BORO WD 3	75-05-22	--	640	705	5	300	18.4	191	7.7	3.2
SPRING LAKE BORO WD 4	75-05-22	--	600	670	5	550	18.7	189	7.5	3.0
FREEHOLD BORO WD 3	75-07-10	--	402	567	1440	1000	14.2	42	6.0	2.0
HIGHLANDS WD-SPRING	75-05-22	--	--	--	--	--	14.3	225	6.2	39
HIGHLANDS BORO WD 2-NEW	75-05-22	632	600	660	1440	150	19.3	73	6.7	3.5
ATL HIGHLANDS BORO WD 3	75-05-22	564	547	572	--	--	16.5	69	6.5	4.2
ATL HIGHLANDS BORO WD 2	75-05-22	--	180	200	--	--	15.5	172	6.9	9.6
W KEANSBURG WC-HOLMDEL 4	75-05-22	--	635	690	--	--	15.0	58	6.7	4.6
W KEANSBURG WC-HAZLET 1	75-05-22	--	327	366	120	1100	13.7	45	6.3	5.5
KEYPORT BORO WD 5	75-07-10	259	204	261	60	825	13.4	120	6.2	27
KEYPORT BORO WD 6	75-05-22	278	247	277	60	950	13.1	298	6.1	66
UNION BEACH BORO WD 1-62	75-07-10	278	247	277	150	950	13.0	198	6.1	50
	75-05-22	288	235	285	5	600	13.6	534	6.1	125
	75-07-10	288	235	285	300	700	13.6	343	6.2	99
US ARMY-FT HANCOCK 2	75-05-22	--	609	724	--	--	19.4	98	6.7	8.2
US ARMY-FT HANCOCK 5	75-05-22	--	751	830	--	--	19.0	106	6.9	9.0

GROUND-WATER QUALITY RECORDS--Continued

OCEAN COUNTY

LOCAL IDENT- I- FIER	LAT- I- TUDE	LONG- I- TUDE	SEQ. NO.	GEO- LOGIC UNIT	DATE OF SAMPLE	TIME	ELEV. OF LAND SURFACE DATUM (FT. ABOVE MSL)	TOTAL DEPTH OF HOLE (FT. BELOW LSD)	TOTAL DEPTH OF WELL (FT)	DEPTH TO TOP OF WATER-BEARING ZONE (FT)
WM 12E	39 53 10	074 22 58	01	121CNSY	75 05-19	1300	127	20	20	.00
WM 12D	39 53 10	074 22 59	01	121CNSY	75-05-19	1245	127	20	20	.00
WM12C	39 53 10	074 23 00	01	121CNSY	75-05-19	1230	120	10	10	.00
GLIDDEN-DURKEE SCH 4	40 03 33	074 19 42	01	211MRRR	75-07-11	1315	110	--	1555	--
CH12E	40 04 39	074 27 05	01	121CNSY	75-05-19	1005	143	20	20	.00
CH12D	40 04 39	074 27 06	01	121CNSY	75-05-19	1000	144	20	20	.00
CH12C	40 04 39	074 27 07	01	121CNSY	75-05-19	0930	144	10	10	.00
CH13E	40 04 40	074 27 07	01	121CNSY	75-05-19	1110	144	20	20	.00
CH13D	40 04 40	074 27 08	01	121CNSY	75-05-19	1050	145	20	20	.00
CH13C	40 04 40	074 27 09	01	121CNSY	75-05-19	1015	147	16	16	.00
PT PLEAS BCH BORO WD 10	40 05 51	074 02 43	01	122KRKD	75-07-10	1415	10	--	130	--

LOCAL IDENT- I- FIER	DATE OF SAMPLE	DEPTH TO TOP OF SAMPLE INTER- VAL (FT)	DEPTH TO BOT- TOM OF SAMPLE INTER- VAL (FT)	PUMP OR FLOW PERIOD PRIOR TO SAM- PLING (MIN)	INSTAN- TANEOUS FLOW RATE (GPM)	TEMPER- ATURE (DEG C)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TUR- BID- ITY (JTU)	COLOR (PLAT- INUM- COBALT UNITS)
WM 12E	75-05-19	10	20	--	--	12.3	39	4.4	--	--
WM 12D	75-05-19	10	20	--	--	12.3	60	4.4	--	--
WM12C	75-05-19	0.0	10	--	--	13.1	291	4.3	--	--
GLIDDEN-DURKEE SCH 4	75-07-11	1345	1555	20	1900	22.0	62	6.0	46	25
CH12E	75-05-19	10	20	--	--	12.2	57	4.2	--	--
CH12D	75-05-19	10	20	--	--	12.5	93	4.3	--	--
CH12C	75-05-19	0.0	10	--	--	13.1	96	4.2	--	--
CH13E	75-05-19	10	20	--	--	12.2	60	4.3	--	--
CH13D	75-05-19	10	20	--	--	11.7	611	4.1	--	--
CH13C	75-05-19	6.0	16	--	--	12.3	1170	4.1	--	--
PT PLEAS BCH BORO WD 10	75-07-10	80	130	15	700	13.0	302	6.6	10	0

LOCAL IDENT- I- FIER	DATE OF SAMPLE	TOTAL ORGANIC NITRO- GEN (N) (MG/L)	AMMONIA NITRO- GEN (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL KJEL- DAHL NITRO- GEN (N) (MG/L)	TOTAL NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	TOTAL ORTHO PHOS- PHORUS (P) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
WM 12E	75-05-19	.06	.00	.00	.03	.06	.09	.01	.00	2.6
WM 12D	75-05-19	.05	.00	.00	.72	.05	.77	.01	.00	--
WM12C	75-05-19	.27	.24	.04	9.4	.51	9.9	.16	.03	5.6
GLIDDEN-DURKEE SCH 4	75-07-11	.05	.01	.00	.00	.06	.06	.06	.02	--
CH12E	75-05-19	.07	.03	.01	.04	.10	.15	.01	.00	4.0
CH12D	75-05-19	.10	.03	.01	1.3	.13	1.4	.00	.00	5.2
CH12C	75-05-19	.24	.01	.01	2.5	.25	2.8	.02	.00	6.2
CH13E	75-05-19	.22	.04	.00	.11	.26	.37	.01	.00	3.6
CH13D	75-05-19	.28	.08	.01	29	.36	29	.04	.00	--
CH13C	75-05-19	.73	.06	.01	85	.79	86	.11	.01	16
PT PLEAS BCH BORO WD 10	75-07-10	.00	.37	.01	.01	.37	.38	.21	.07	--

LOCAL IDENT- I- FIER	DATE OF SAMPLE	ALKA- LINITY AS CACO3 (MG/L)	CAR- BONATE (CO3) (MG/L)	BICAR- BONATE (HCO3) (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	HARD- NESS (CA,MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)	TOTAL CAL- CIUM (CA) (MG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	TOTAL MAG- NE- SIUM (MG) (MG/L)
WM 12E	75-05-19	--	--	--	--	--	--	1.0	--	.2
WM 12D	75-05-19	--	--	--	--	--	--	1.8	--	.6
WM12C	75-05-19	--	--	--	--	--	--	8.4	--	6.3
GLIDDEN-DURKEE SCH 4	75-07-11	30	0	36	58	29	0	--	9.5	--
CH12E	75-05-19	--	--	--	--	--	--	3.7	--	.4
CH12D	75-05-19	--	--	--	--	--	--	2.0	--	1.5
CH12C	75-05-19	--	--	--	--	--	--	2.2	--	1.3
CH13E	75-05-19	--	--	--	--	--	--	19	--	.7
CH13D	75-05-19	--	--	--	--	--	--	33	--	30
CH13C	75-05-19	--	--	--	--	--	--	100	--	63
PT PLEAS BCH BORO WD 10	75-07-10	10	0	22	8.8	91	73	--	21	--

LOCAL IDENT- I- FIER	DATE OF SAMPLE	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L)	TOTAL SODIUM (NA) (MG/L)	DIS- SOLVED SODIUM (NA) (MG/L)	TOTAL PO- TAS- SIUM (K) (MG/L)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)	DIS- SOLVED FLUO- RIDE (F) (MG/L)	DIS- SOLVED SILICA (SIO2) (MG/L)
WM 12E	75-05-19	--	.7	--	.1	--	2.3	6.0	--	2.1
WM 12D	75-05-19	--	1.0	--	.6	--	3.0	6.9	--	2.1
WM12C	75-05-19	--	3.0	--	1.1	--	5.4	71	--	3.2
GLIDDEN-DURKEE SCH 4	75-07-11	1.3	--	1.4	1.0	1.0	2.6	5.6	.0	9.2
CH12E	75-05-19	--	1.3	--	.4	--	2.3	8.9	--	2.0
CH12D	75-05-19	--	2.0	--	.3	--	5.5	12	--	3.4
CH12C	75-05-19	--	2.3	--	1.1	--	4.5	16	--	3.9
CH13E	75-05-19	--	1.7	--	.2	--	4.0	14	--	3.3
CH13D	75-05-19	--	10	--	1.2	--	60	91	--	5.7
CH13C	75-05-19	--	41	--	1.5	--	90	270	--	7.5
PT PLEAS BCH BORO WD 10	75-07-10	9.4	--	24	3.7	3.7	96	7.1	.1	22

OCEAN COUNTY--Continued

LOCAL IDENT- I- FIER	DATE OF SAMPLE	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L)	DIS- SOLVED SOLIDS (SUM OF CONSTI- TUENTS) (MG/L)	TOTAL IRON (FE) (UG/L)	DIS- SOLVED IRON (FE) (UG/L)	TOTAL MAN- GANESE (MN) (UG/L)	DIS- SOLVED MAN- GANESE (MN) (UG/L)	SUS- PENDED MAN- GANESE (MN) (UG/L)	TOTAL ARSENIC (AS) (UG/L)	TOTAL CAD- MIUM (CD) (UG/L)
WM 12E	75-05-19	--	--	60	--	20	--	--	1	0
WM 12D	75-05-19	--	--	80	--	40	--	--	0	1
WM12C	75-05-19	--	--	4900	--	40	--	--	12	1
GLIDDEN-DURKEE SCH 4	75-07-11	59	55	5700	5700	110	110	0	--	--
CM12E	75-05-19	--	--	80	--	160	--	--	0	1
CM12D	75-05-19	--	--	110	--	190	--	--	1	2
CM12C	75-05-19	--	--	110	--	350	--	--	0	6
CM13E	75-05-19	--	--	400	--	110	--	--	0	2
CM13D	75-05-19	--	--	70	--	1200	--	--	0	5
CM13C	75-05-19	--	--	6300	--	1400	--	--	5	6
PT PLEAS BCH BORO WD 10	75-07-10	267	190	5100	5100	180	180	0	--	--

LOCAL IDENT- I- FIER	DATE OF SAMPLE	TOTAL CHRO- MIUM (CR) (UG/L)	TOTAL COBALT (CO) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)	TOTAL NICKEL (NI) (UG/L)	TOTAL ZINC (ZN) (UG/L)
WM 12E	75-05-19	0	1	0	4	<.5	2	10
WM 12D	75-05-19	0	1	0	7	<.5	3	30
WM12C	75-05-19	20	2	20	11	.9	2	40
CM12E	75-05-19	10	7	10	13	<.5	1	50
CM12D	75-05-19	<10	10	10	10	<.5	0	70
CM12C	75-05-19	<10	6	40	44	<.5	0	170
CM13E	75-05-19	10	5	20	28	<.5	0	90
CM13D	75-05-19	20	25	10	12	<.5	2	180
CM13C	75-05-19	40	31	20	11	.6	3	220

LOCAL IDENT- I- FIER	LAT- I- TUDE	LONG- I- TUDE	SEQ. NO.	GEO- LOGIC UNIT	DATE OF SAMPLE	TIME	ELEV. OF LAND SURFACE DATUM (FT. ABOVE MSL)	TOTAL DEPTH OF HOLE (FT. BELOW LSD)	TOTAL DEPTH OF WELL (FT)	DEPTH TO TOP OF WATER- BEARING ZONE (FT)
BEACH HAVEN BORO WD 7	39 33 46	074 14 34	01	122KRKD	75-05-21	0820	5.0	668	668	544
LONG BEACH WC-TERRACE 3	39 35 10	074 13 27	01	122KRKD	75-05-21	0920	5.0	--	650	--
LONG BEACH WC-BRANT 1	39 37 25	074 11 50	01	122KRKD	75-05-21	0910	9.0	615	615	518
EDWARD TONNESON	39 40 09	074 13 04	01	121CNSY	75-05-21	1010	5.0	--	290	--
BARNEGAT LIGHT BORO WD 2	39 45 24	074 06 32	01	122KRKD	75-05-21	0950	7.0	675	646	570
WM 12E	39 53 18	074 22 58	01	121CNSY	75-05-19	1300	127	20	20	.00
WM 12D	39 53 18	074 22 59	01	121CNSY	75-05-19	1245	127	20	20	.00
WM12C	39 53 18	074 23 00	01	121CNSY	75-05-19	1230	128	18	18	.00
OCEAN GATE BORO WD 1	39 55 27	074 08 22	01	122KRKD	75-05-21	1105	7.0	--	372	--
BEACHWOOD BORO WD 4	39 55 27	074 12 21	01	121CNSY	75-05-21	1155	80	--	90	--
OCEAN GATE BORO WD 2	39 55 28	074 08 20	01	122KRKD	75-05-21	1120	7.0	371	365	296
TOMS RIVER WC 18	39 57 21	074 12 29	01	121CNSY	75-05-21	1215	9.0	103	59	35
TOMS R WC-DUGANS 26	39 59 26	074 12 37	01	121CNSY	75-05-21	1230	80	138	134	78
TOMS R WC-DUGANS 27	39 59 26	074 12 37	02	122KRKD	75-05-21	1240	80	293	291	248
TOMS R WC-DUGANS 22	39 59 45	074 12 22	01	121CNSY	75-05-21	1250	80	127	126	55
TOMS R WC-DUGANS 23	39 59 45	074 12 22	02	122KRKD	75-05-21	1310	80	300	275	253
GLIDDEN-DURKEE SCH 4	40 03 33	074 19 42	01	211MGRB	75-07-11	1315	110	--	1555	--
CM12E	40 04 39	074 27 05	01	121CNSY	75-05-19	1005	143	20	20	.00
CM12D	40 04 39	074 27 06	01	121CNSY	75-05-19	1000	144	20	20	.00
CM12C	40 04 39	074 27 07	01	121CNSY	75-05-19	0930	144	18	18	.00
CM13E	40 04 40	074 27 07	01	121CNSY	75-05-19	1110	144	20	20	.00
CM13D	40 04 40	074 27 08	01	121CNSY	75-05-19	1050	145	20	20	.00
CM13C	40 04 40	074 27 09	01	121CNSY	75-05-19	1015	147	16	16	.00
PT PLEAS BCH BORO WD 11	40 05 12	074 02 51	01	122KRKD	75-05-21	1410	10	168	143	129
PT PLEAS BCH BORO WD 9	40 05 36	074 02 52	01	122KRKD	75-05-21	1345	11	168	134	95
PT PLEAS BCH BORO WD 10	40 05 51	074 02 43	01	122KRKD	75-05-20	--	10	--	130	--
				122KRKD	75-07-10	1415	10	--	130	--

GROUND-WATER QUALITY RECORDS--Continued

OCEAN COUNTY--Continued

LOCAL IDENT-I-FIER	DATE OF SAMPLE	DEPTH TO BOT-TOM OF WATER-BEARING ZONE (FT)	DEPTH TO TOP OF SAMPLE INTER-VAL (FT)	DEPTH TO BOT-TOM OF SAMPLE INTER-VAL (FT)	PUMP OR FLOW PERIOD PRIOR TO SAM-PLING (MIN)	INSTAN-TANEOUS FLOW RATE (GPM)	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)
BEACH HAVEN BORO WD 7	75-05-21	660	572	660	360	350	17.1	83	6.6	10
LONG BEACH WC-TERRACE 3	75-05-21	--	551	650	0	1000	17.0	53	6.2	6.5
LONG BEACH WC-BRANT 1	75-05-21	615	535	615	20	600	16.7	58	6.4	6.0
EDWARD TOWNESON	75-05-21	--	--	--	--	--	13.0	233	5.2	56
BARNEGAT LIGHT BORO WD 2	75-05-21	660	593	646	260	500	17.0	375	8.3	5.7
WH 12E	75-05-19	--	10	20	--	--	12.3	39	4.4	2.3
WH 12D	75-05-19	--	10	20	--	--	12.3	68	4.4	3.0
WH12C	75-05-19	--	0.0	10	--	--	13.1	291	4.3	5.4
OCEAN GATE BORO WD 1	75-05-21	--	--	--	--	--	13.3	155	7.4	7.1
BEACHWOOD BORO WD 4	75-05-21	--	65	97	210	450	12.3	51	4.9	13
OCEAN GATE BORO WD 2	75-05-21	371	340	360	1440	225	13.9	174	7.2	6.4
TOMS RIVER WC 10	75-05-21	80	47	57	735	700	13.0	97	5.4	24
TOMS R WC-DUGANS 26	75-05-21	137	113	136	1000	600	12.7	161	5.3	35
TOMS R WC-DUGANS 27	75-05-21	284	250	291	5	300	13.0	46	5.0	8.6
TOMS R WC-DUGANS 22	75-05-21	126	106	126	770	625	12.9	142	5.3	20
TOMS R WC-DUGANS 23	75-05-21	282	254	275	10	285	12.3	51	6.3	9.0
GLIDDEN-DURKEE SCH 4	75-07-11	--	1365	1555	20	1500	22.0	62	6.0	2.6
CH12E	75-05-19	--	10	20	--	--	12.2	57	4.2	2.3
CH12D	75-05-19	--	10	20	--	--	12.5	93	4.3	5.5
CH12C	75-05-19	--	0.0	10	--	--	13.1	94	4.2	4.5
CH13E	75-05-19	--	10	20	--	--	12.2	60	4.3	4.0
CH13D	75-05-19	--	10	20	--	--	11.7	611	4.1	40
CH13C	75-05-19	--	6.0	16	--	--	12.3	1170	4.1	98
PT PLEAS BCH BORO WD 11	75-05-21	161	130	143	--	--	13.8	97	6.6	16
PT PLEAS BCH BORO WD 9	75-05-21	--	96	134	--	--	13.9	353	6.9	111
PT PLEAS BCH BORO WD 10	75-05-20	--	86	130	--	--	--	402	6.4	135
	75-07-10	--	86	130	15	700	13.8	302	6.6	96

GROUND-WATER QUALITY RECORDS--Continued

SALEM COUNTY

LOCAL IDENT-I-FIER	LAT-I-TUDE	LONG-I-TUDE	SEQ. NO.	GEO-LOGIC UNIT	DATE OF SAMPLE	TIME	ELEV. OF LAND SURFACE DATUM (FT. ABOVE MSL)	TOTAL DEPTH OF HOLE (FT. BELOW LSD)	TOTAL DEPTH OF WELL (FT)	DEPTH TO TOP OF WATER-BEARING ZONE (FT)
SALEM 2 OBS	39 33 48	075 27 57	02	211MLRW	75-06-24	1130	3.0	--	98	--
ELMER BORO WD 3	39 35 34	075 10 18	01	211MLRW	75-03-28	1035	105	573	500	425
PENNS GROVE 24 OBS	39 42 36	075 27 21	01	211MGRR	75-06-24	1530	18	--	51	--

LOCAL IDENT-I-FIER	DATE OF SAMPLE	DEPTH TO BOT-TOM OF WATER-BEARING ZONE (FT)	DEPTH TO TOP OF SAMPLE INTER-VAL (FT)	DEPTH TO BOT-TOM OF SAMPLE INTER-VAL (FT)	PUMP OR FLOW PERIOD PRIOR TO SAM-PLING (MIN)	INSTAN-TANEOUS FLOW RATE (GPM)	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	CHEM-ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)
SALEM 2 OBS	75-06-24	--	91	96	55	17	13.6	468	7.2	1
ELMER BORO WD 3	75-03-28	532	460	493	15	390	17.8	333	8.2	--
PENNS GROVE 24 OBS	75-06-24	--	46	51	65	18	13.1	230	5.8	2

LOCAL IDENT-I-FIER	DATE OF SAMPLE	TUR-BID-ITY (JTU)	COLOR (PLAT-INUM-COBALT UNITS)	TOTAL ORGANIC NITRO-GEN (N) (MG/L)	AMMONIA NITRO-GEN (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)
SALEM 2 OBS	75-06-24	10	1	.00	.00	.00	.00	.00	.00	.04
ELMER BORO WD 3	75-03-28	1	7	.00	.29	.01	.00	.29	.30	.07
PENNS GROVE 24 OBS	75-06-24	3	2	.10	.05	.00	2.0	.15	2.2	.01

LOCAL IDENT-I-FIER	DATE OF SAMPLE	TOTAL ORTHO PHOS-PHORUS (P) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)	DIS-SOL-VED ORGANIC CARBON (C) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	CAR-BONATE (CO3) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)
SALEM 2 OBS	75-06-24	.01	3.4	1.0	110	0	134	14	200	93
ELMER BORO WD 3	75-03-28	.06	1.4	--	157	0	191	1.9	30	0
PENNS GROVE 24 OBS	75-06-24	.01	2.0	1.6	2	0	3	48	71	69

LOCAL IDENT-I-FIER	DATE OF SAMPLE	TOTAL CAL-CIUM (CA) (MG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	TOTAL MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	TOTAL PO-TAS-SIUM (K) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)
SALEM 2 OBS	75-06-24	79	77	2.9	2.5	2.8	3.1	3.1	41	51
ELMER BORO WD 3	75-03-28	22	8.0	3.9	2.5	64	--	7.3	5.1	7.7
PENNS GROVE 24 OBS	75-06-24	16	14	9.6	8.8	5.3	2.7	2.7	12	61

LOCAL IDENT-I-FIER	DATE OF SAMPLE	TOTAL FLUO-RIDE (F) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	TOTAL IRON (FE) (UG/L)	DIS-SOLVED IRON (FE) (UG/L)	TOTAL MAN-GANESE (MN) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)
SALEM 2 OBS	75-06-24	.1	.1	17	340	262	1000	940	--	30
ELMER BORO WD 3	75-03-28	.7	--	8.5	201	197	130	70	10	10
PENNS GROVE 24 OBS	75-06-24	.1	.1	17	149	123	2800	270	190	180

LOCAL IDENT-I-FIER	DATE OF SAMPLE	SUS-PENDED MAN-GANESE (MN) (UG/L)	TOTAL ARSENIC (AS) (UG/L)	TOTAL CAD-MIUM (CD) (UG/L)	TOTAL CHRO-MIUM (CR) (UG/L)
SALEM 2 OBS	75-06-24	0	1	0	20
ELMER BORO WD 3	75-03-28	0	--	--	--
PENNS GROVE 24 OBS	75-06-24	10	0	1	20

LOCAL IDENT-I-FIER	DATE OF SAMPLE	TOTAL COBALT (CO) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)	TOTAL NICKEL (NI) (UG/L)	TOTAL ZINC (ZN) (UG/L)
SALEM 2 OBS	75-06-24	0	0	1	<.5	0	90
PENNS GROVE 24 OBS	75-06-24	25	220	75	<.5	23	250

GROUND-WATER QUALITY RECORDS--Continued

SALEM COUNTY--Continued

LOCAL IDENT- I- FIER	LAT- I- TUDE	LONG- I- TUDE	SEQ. NO.	GEO- LOGIC UNIT	DATE OF SAMPLE	TIME	ELEV. OF LAND SURFACE DATUM (FT. ABOVE MSL)	TOTAL DEPTH OF HOLE (FT. BELOW LSD)	TOTAL DEPTH OF WELL (FT)	DEPTH TO TOP OF WATER-BEARING ZONE (FT)
SALEM CITY WD-QUINTON#5	39 32 53	075 24 25	03	125VNCN	74-10-04	1145	7.0	--	133	26
SALEM CITY WD-KEASB CK 5	39 33 37	075 27 19	01	211MLRL	74-10-04	1125	10	--	168	82
SALEM CITY WD-KEASB CK 2	39 33 42	075 27 10	01	211MLRW	74-10-04	1112	5.0	--	157	82
				211MLRW	75-05-15	0930	5.0	--	157	82
SALEM 2 OBS	39 33 40	075 27 57	02	211MLRW	75-06-24	1130	3.0	--	98	--
ELMER BORO WD 3	39 35 34	075 10 18	01	211MLRW	75-03-20	1035	105	573	500	425
NJ DEP-FT MOTT S P 1	39 36 20	075 33 10	01	211MGRR	74-10-04	1230	8.0	--	320	300
				211MGRR	75-05-15	1045	8.0	--	320	300
PENNSVILLE TWP WD 4	39 37 54	075 31 40	01	211MGRR	74-10-04	1330	10	--	137	--
WOODSTOWN BORO WD 2	39 39 04	075 19 46	02	211MGRR	75-05-15	0745	45	705	705	676
RICHMAN ICE CREAM 1	39 39 20	075 21 47	01	211MGRR	75-05-15	0830	25	465	475	400
PENNSVILLE TWP WD 3	39 39 54	075 30 13	01	211MGRR	74-10-04	1310	7.0	--	102	86
PENNSVILLE TWP WD 7	39 40 00	075 30 43	01	211MGRR	75-05-15	1135	7.0	242	232	197
ATL CITY EL-DEEPWATER 3W	39 40 46	075 30 22	02	211MGRR	75-05-15	1345	10	285	236	--
ATL CITY EL-DEEPWATER 6	39 41 00	075 30 30	01	211MGRR	74-10-04	1416	15	220	188	147
EI DUPONT-DRINKWATER 8	39 41 12	075 30 20	01	211MGRR	74-10-04	1450	14	--	361	--
PENNS GROVE 24 OBS	39 42 36	075 27 21	01	211MGRR	75-06-24	1530	18	--	51	--
PENNS GROVE WC 20	39 42 47	075 27 14	01	211MGRR	74-10-07	1300	19	--	60	--
PENNS GROVE WC-LAYNE 1	39 42 56	075 27 18	01	211MGRR	75-05-15	1445	19	366	357	270

LOCAL IDENT- I- FIER	DATE OF SAMPLE	DEPTH TO BOT-TOM OF WATER-BEARING ZONE (FT)	DEPTH TO TOP OF SAMPLE INTER-VAL (FT)	DEPTH TO BOT-TOM OF SAMPLE INTER-VAL (FT)	PUMP OR FLOW PERIOD PRIOR TO SAM-PLING (MIN)	INSTAN-TANEOUS FLOW RATE (GPM)	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)
SALEM CITY WD-QUINTON#5	74-10-04	--	--	--	1440	250	13.7	376	7.4	6.5
SALEM CITY WD-KEASB CK 5	74-10-04	--	96	168	20	400	13.7	435	7.6	45
SALEM CITY WD-KEASB CK 2	74-10-04	--	110	157	12	350	13.6	467	7.4	50
	75-05-15	--	110	157	15	350	13.7	527	7.4	52
SALEM 2 OBS	75-06-24	--	91	96	55	17	13.6	460	7.2	41
ELMER BORO WD 3	75-03-20	532	460	493	15	390	17.8	333	8.2	5.1
NJ DEP-FT MOTT S P 1	74-10-04	--	300	320	60	140	14.8	532	7.2	109
	75-05-15	--	300	320	10	140	15.6	500	6.8	106
PENNSVILLE TWP WD 4	74-10-04	--	117	137	300	700	13.4	149	6.7	12
WOODSTOWN BORO WD 2	75-05-15	--	670	705	180	350	17.3	967	7.6	166
RICHMAN ICE CREAM 1	75-05-15	--	418	446	180	100	15.1	414	7.5	26
PENNSVILLE TWP WD 3	74-10-04	--	87	102	60	700	13.2	93	6.7	8.7
PENNSVILLE TWP WD 7	75-05-15	232	210	230	1440	350	15.6	504	6.0	94
ATL CITY EL-DEEPWATER 3W	75-05-15	243	165	235	720	500	13.8	387	6.5	45
ATL CITY EL-DEEPWATER 6	74-10-04	199	158	188	11	600	14.9	618	6.4	145
EI DUPONT-DRINKWATER 8	74-10-04	--	317	361	360	145	14.8	427	7.3	55
PENNS GROVE 24 OBS	75-06-24	--	46	51	65	16	13.1	230	5.0	12
PENNS GROVE WC 20	74-10-07	--	45	60	300	--	13.4	191	5.0	14
PENNS GROVE WC-LAYNE 1	75-05-15	--	317	357	240	600	14.7	892	7.4	191

THE FOLLOWING LIST SHOWS THE AQUIFER CODES AND GEOLOGIC NAMES OF THE FORMATIONS IN WHICH THE WELLS ARE FINISHED. THE AQUIFER CODES ALSO APPEAR IN THE COLUMN "GEOLOGIC UNIT" IN THE PRECEDING TABLE:

112CPMY . CAPE MAY FORMATION UNDIFFERENTIATED
112ERNS . CAPE MAY FORMATION, ESTURINE SAND FACIES
112PLCC . PLEISTOCENE-COHANSEY SAND UNDIFFERENTIATED
121CNSY . COHANSEY SAND
121CKKD . COHANSEY SAND-KIRKWOOD FORMATION
122KRKDU, KIRKWOOD FORMATION, UPPER SAND
122KRKD . KIRKWOOD FORMATION
122KRKDL, KIRKWOOD FORMATION, LOWER SAND
124PNPN . PINEY POINT FORMATION
125HRRS . HORNERSTOWN SAND
211MLRW . MOUNT LAUREL SAND-WENONAH FORMATION
211EGLS . ENGLISHTOWN FORMATION
211MGRR . MAGOTHY-RARITAN FORMATIONS
211ODBG . RARITAN FORMATION, OLD BRIDGE SAND MEMBER
211FRNG . RARITAN FORMATION, FARRINGTON SAND MEMBER
217PTMC . POTOMAC GROUP

EXPLANATION OF GROUND-WATER COLUMN HEADINGS--Continued

TOTAL DEPTH OF WELL(FT):
MAXIMUM DEPTH BELOW LAND SURFACE DATUM AT WHICH THE WELL WAS ORIGINALLY FINISHED. THIS DEPTH MAY BE SLIGHTLY DEEPER THAN "DEPTH TO THE BOTTOM OF SAMPLE INTERVAL" BECAUSE MANY WELLS HAVE A "TAILPIECE" OR SHORT LENGTH OF CASING INSTALLED BELOW THE WELL SCREEN.

TOTAL DEPTH OF HOLE(FT. BELOW LSD):
TOTAL DEPTH TO WHICH THE HOLE WAS DRILLED. REGARDLESS OF THE FININSHED DEPTH OF THE WELL.

DEPTH TO THE TOP OF WATER BEARING ZONE(FT):
THE DEPTH LISTED IS THE BEST AVAILABLE INFORMATION WHICH INDICATES THE TOP OF THE WATER-BEARING ZONE THAT IS FURNISHING WATER TO THE WELL.

DEPTH TO BOTTOM OF WATER-BEARING ZONE(FT):
THE DEPTH LISTED IS THE BEST AVAILABLE INFORMATION WHICH INDICATES THE BOTTOM OF THE WATER-BEARING ZONE THAT IS FURNISHING WATER TO THE WELL. IF THE WELL DOES NOT FULLY PENETRATE THE WATER-BEARING ZONE THIS PARAMETER IS LEFT BLANK.

DEPTH TO THE TOP OF SAMPLE INTERVAL(FT):
IN A FULLY CASED WELL THIS VALUE IS THE UPPERMOST POINT AT WHICH WATER CAN ENTER THE WELL. IN BEDDED SEDIMENTS THIS IS USUALLY THE UPPERMOST PART OF THE SCREENED INTERVAL. IN SOME WELLS THE TOP OF THE WELL SCREEN IS INSTALLED INSIDE AND A FEW FEET ABOVE THE BOTTOM OF THE CASING. UNDER THESE CONDITIONS THE BOTTOM OF THE CASING IS CONSIDERED TO BE THE TOP OF THE SAMPLE INTERVAL.

DEPTH TO BOTTOM OF SAMPLE INTERVAL(FT):
IN A FULLY CASED WELL THIS VALUE IS THE LOWERMOST POINT AT WHICH WATER CAN ENTER THE WELL.

PUMP OR FLOW PERIOD PRIOR TO SAMPLING:
THIS PARAMETER IS INTENDED PRIMARILY FOR USE WITH THE PARAMETER "INSTANTANEOUS FLOW RATE". SO THAT THE EXACT VOLUME OF WATER PUMPED PRIOR TO SAMPLING CAN BE DETERMINED.

INSTANTANEOUS FLOW RATE:
FLOW RATE AT WHICH WATER IS REMOVED FROM THE WELL. INTENDED FOR USE WITH ABOVE PARAMETER SO THAT THE EXACT VOLUME OF WATER PUMPED PRIOR TO SAMPLING CAN BE DETERMINED.

PAGE

A

ABSECON CREEK BASIN.... 109
ABSECON CREEK AT ABSECON.... 109.179
ACCURACY OF DATA.... 23
ACRE-FOOT. DEFINITION.... 3
ALBERTSON BROOK NEAR HAMMONTON.... 154
ALLENDALE. HOHOKUS BROOK AT.... 158
  RAMSEY BROOK AT.... 158
ALLENWOOD. MANASQUAN RIVER AT.... 161
ALLOWAY. ALLOWAY C AT INLET OF ALLOWAY LK NR.... 447
ALLOWAY C AT INLET OF ALLOWAY LK NR ALLOWAY.... 447
ALMONESSON CREEK AT RUNNEMEDE.... 414
AQUIFER CODE LIST.... 465
AQUIFER. DEFINITION.... 3
ASH WEIGHT. DEFINITION.... 4
ASSUNPINK CREEK AT BAKERSVILLE.... 365
  AT TRENTON.... 132.367
  NEAR CLARKSVILLE.... 131
ATCO. MULLICA RIVER NEAR.... 161
ATLANTIC COUNTY. GROUND WATER.... 448
ATSION. MULLICA RIVER AT.... 153
  MULLICA RIVER TRIBUTARY AT.... 153
  SLEEPER BRANCH AT.... 154
  SPRINGERS BROOK NEAR.... 154
AWOSTING. WANAQUE RIVER AT.... 56

B

BABCOCK CREEK NEAR MAYS LANDING.... 304
BACTERIA. DEFINITION.... 4
BAKERSVILLE. ASSUNPINK CREEK AT.... 365
  SHIPETAUKIN CREEK AT.... 366
BALDWIN CREEK AT PENNINGTON.... 159
BARNEGAT BAY AT BARNEGAT LIGHT.... 179
  AT BAY SHORE.... 179
BARNEGAT LIGHT. BARNEGAT BAY AT.... 179
BARTLEY. DRAKES BROOK AT.... 152
BATSTO. MULLICA RIVER NEAR.... 105
  SLEEPER BRANCH AT.... 154
BATSTO RIVER AT BATSTO.... 106
  AT PLEASANT MILLS.... 172.179
BEAVER BROOK NEAR BELVIDERE.... 155.161
BEDEN BROOK NEAR HOPEWELL.... 159
  NEAR ROCKY HILL.... 160
BEDLOAD. DEFINITION.... 4
BED MATERIAL. DEFINITION.... 4
BEESLEYS POINT. GREAT EGG HARBOR BAY AT.... 179
BELCHER CREEK AT STONAWAY ROAD AT WEST MILFORD.... 151
  TRIBUTARY AT WEST MILFORD.... 151
BELLE MEAD. ROYCE BROOK TRIBUTARY NEAR.... 220
BELLEVILLE. SECOND RIVER AT.... 158
BELTZVILLE LAKE DATA.... 145.148
BELVIDERE. BEAVER BROOK NEAR.... 155.161
  DELAWARE RIVER AT.... 124
BERLIN. GREAT EGG HARBOR AT.... 265
BERNARDSVILLE. PASSAIC RIVER NEAR.... 49
BERRYLAND. HOSPITALITY BRANCH AT.... 299
BETHLEHEM. PA.. LEHIGH RIVER AT.... 126
BIOCHEMICAL OXYGEN DEMAND. DEFINITION.... 4
BIOMASS. DEFINITION.... 4
BIVALVE. MAURICE RIVER AT.... 180
BLACK RIVER. SEE LAMINGTON RIVER.... 80
BLACKWELLS MILLS. MILLSTONE RIVER AT.... 86
BLAIRSTOWN. PAULINS KILL AT.... 121
  YARDS CREEK NEAR.... 122
BLAWENBURG. ROCK BROOK NEAR.... 160
BLOOMSBURY. MUSCONETCONG RIVER NEAR.... 128.345
BLUE ANCHOR. BLUE ANCHOR BROOK AT.... 112.161
  GREAT EGG HARBOR RIVER NEAR.... 113.289
  PUMP BRANCH AT.... 154.161
BLUE ANCHOR BROOK AT BLUE ANCHOR.... 161
BLUE-GREEN ALGAE.... 10
BOONTON RESERVOIR DATA.... 67.68
  ROCKAWAY RIVER ABOVE RESERVOIR AT.... 52.189
  ROCKAWAY RIVER BELOW RESERVOIR AT.... 53
BOUND BROOK AT MIDDLESEX.... 90
BOUND BROOK. RARITAN RIVER BELOW CALCO DAM. AT.... 87
BRIDGETON. COHANSEY RIVER AT.... 321
  COHANSEY R AT OUTLET OF SUNSET LK AT.... 320
BRISTOL.PA.-BURLINGTON.N.J. BRIDGE. DELAWARE R AT.. 374
BROOKVILLE. OYSTER CREEK NEAR.... 103.259
BROWNS MILLS. NORTH BRANCH RANCOCAS CREEK AT.... 385
BUDD LAKE. SOUTH BRANCH RARITAN R TRIB NO 6 AT.... 152
  SOUTH BRANCH RARITAN RIVER TRIBUTARY NO.7 AT.... 152
  SOUTH BRANCH RARITAN RIVER AT OUTLET OF.... 152
BURLINGTON COUNTY. GROUND WATER.... 449
BURLINGTON. DELAWARE RIVER AT.... 175
BURLINGTON.N.J.-BRISTOL.PA. BRIDGE. DELAWARE R AT.. 374

C

CAMDEN COUNTY. GROUND WATER.... 450
CANISTEAR RESERVOIR.... 67.68
CANNONSVILLE RESERVOIR.... 143.146
CAPE MAY CANAL AT NORTH CAPE MAY.... 179
CAPE MAY. CAPE MAY HARBOR AT.... 179
CAPE MAY COUNTY. GROUND WATER.... 452
CAPE MAY HARBOR AT CAPE MAY.... 179
CENTERTON. RANCOCAS CREEK AT.... 396
CFS-DAY. DEFINITION.... 5
CHARLOTTEBURG RESERVOIR DATA.... 67.69
CHATHAM. PASSAIC RIVER NEAR.... 51.188
CHATSWORTH. WEST BRANCH WADING RIVER. NEAR.... 154

PAGE

CHEMICAL OXYGEN DEMAND. DEFINITION.... 5
CHERRY HILL. SOUTH BRANCH PENNSAUKEN CREEK AT.... 137
CHESILHURST. MAYS MILL CREEK NEAR.... 154.161
  WILDCAT BRANCH AT.... 154
CHESTER. DELAWARE RIVER AT.... 177.420
CINNAMINSON. POMPESTON CREEK AT.... 163
CLARKSVILLE. ASSUNPINK CREEK NEAR.... 131
CLEMENTON. NORTH BRANCH BIG TIMBER CREEK
    AT BERLIN ROAD AT.... 413
CLIFF LAKE. N.Y.... 144.147
CLIFTON. WEASEL BROOK AT.... 158
CLINTON RESERVOIR DATA.... 67.69
CLINTON. SPRUCE RUN AT.... 76.216
COHANSEY RIVER AT BRIDGETON.... 321
  AT OUTLET OF SUNSET LAKE AT.... 320
  AT SEELEY.... 319
  WEST BRANCH. AT SEELEY.... 161
COHANSEY RIVER BASIN.... 319-321
COLLECTION AND COMPUTATION OF DATA.... 17-22
COLLINGSWOOD. NEWTON CREEK AT.... 163
COMPUTATIONS. ACCURACY OF. RESULTS OF.... 23
CONTENTS. DEFINITION.... 5
CONTINUING RECORD STATION. DEFINITION.... 5
CONTROL. DEFINITION.... 5
COOLEY BROOK NEAR WEST MILFORD.... 152
COOPERATION. CREDITS FOR.... 2
COOPER RIVER AT HADDONFIELD.... 138.405
  AT KIRKWOOD.... 163
  NORTH BRANCH AT MARLBORO.... 163
  NORTH BRANCH AT ELLISBURG.... 163
COURSES LANDING. SALEM RIVER AT.... 439
CROOK HORN CREEK AT OCEAN CITY.... 173
CROSSWICKS CREEK AT EXTONVILLE.... 133.373
  AT NEW EGYPT.... 162
CUBIC FOOT PER SECOND. DEFINITION.... 6
CUBIC FEET PER SECOND PER SQUARE MILE. DEF.... 6
CUMBERLAND COUNTY. GROUND WATER.... 453

D

DATA. ACCURACY OF.... 23
  EXPLANATION OF.... 17-22
  OTHER AVAILABLE.... 24
DAVIDSONS MILL POND. LAWRENCE BROOK AT OUTLET OF... 153
DEAD RIVER NEAR MILLINGTON.... 151
DEEP RUN NEAR WEYMOUTH.... 302
DEFINITION OF TERMS.... 3
DE FOREST. LAKE. N.Y.... 47
DELAWARE BAY BASIN.... 315-318
DELAWARE BAY AT SHIP JOHN SHOAL LIGHTHOUSE.... 315
DELAWARE RIVER AT BELVIDERE.... 124
  AT BENJAMIN FRANKLIN BRIDGE. PHILA. PA.... 406
  AT BRISTOL. PA.-BURLINGTON. N.J. BRIDGE.... 374
  AT BURLINGTON.... 175
  AT CHESTER. PA.... 177.420
  AT DELAWARE MEMORIAL BRIDGE. WILMINGTON. DEL.... 178.431
  AT DUNNFIELD. N.J. (DELAWARE WATER GAP, PA).... 120.331
  AT EASTON. PA.... 125.338
  AT FORT MIFFLIN. AT PHILADELPHIA. PA.... 415
  AT MARCUS HOOK. PA.... 429
  AT MARINE TERMINAL. TRENTON.... 174.369
  AT MONTAGUE.... 118
  AT OAKWOOD BEACH.... 180
  AT PALMYRA.... 176
  AT PORT JERVIS. N.Y.... 116
  AT REEDY ISLAND JETTY. DEL.... 440
  AT RIEGELSVILLE.... 162
  AT TORRESDALE INTAKE. AT PHILADELPHIA. PA.... 398
  AT TRENTON.... 130.346
  BELOW TOCKS ISLAND DAMSITE. NR DEL WATER GAP.... 120
  NEAR EAST STROUDSBURG. PA. (DUNNFIELD. N.J).... 324
  NEAR MARTINS CREEK. PA. (ROXBURG. N.J.).... 336
DELAWARE RIVER BASIN.... 116-150.322-447
DELAWARE MEMORIAL BRIDGE. WILMINGTON. DEL..
    DELAWARE RIVER AT.... 178.431
DELAWARE AND RARITAN CANAL AT KINGSTON.... 129
  DIVERSION AT.... 129
DELAWARE WATER GAP. PA.. DELAWARE RIVER BELOW
    TOCKS ISLAND DAMSITE. NEAR.... 120
DIATOMS. DEFINITION.... 10
DISCHARGE. DEFINITION.... 6
DISSOLVED. DEFINITION.... 6
DOCTORS CREEK AT GROVEVILLE.... 162
DOWNSTREAM ORDER AND STATION NUMBERS.... VII-XII
  EXPANATION OF.... 15
DRAINAGE AREA. DEFINITION.... 6
DRAINAGE BASIN. DEFINITION.... 6
DRAKES BROOK AT BARTLEY.... 152
DRY WEIGHT. DEFINITION.... 5
DUCK POND RUN AT CLARKSVILLE.... 159
DUNELLEN. GREEN BROOK AT.... 160
DWARS KILL AT NORWOOD.... 151
DUNNFIELD. DELAWARE RIVER AT.... 331

E

EAST FORK EAST BRANCH RAHWAY R AT W ORANGE.... 158
EASTON. PA.. DELAWARE RIVER AT.... 125.336
EAST STORM DRAIN-WINSLOW CROSSING NR SICKLERVILLE.. 278
EAYRESTOWN. SOUTHWEST BRANCH RANCOCAS CREEK AT.... 383
ECHO LAKE.... 67.69
ELIZABETH. ELIZABETH RIVER AT.... 218
ELIZABETH RIVER AT ELIZABETH.... 218
ELIZABETH RIVER AT URSINO LAKE. ELIZABETH.... 71

PAGE

- ELIZABETH RIVER BASIN 71,210
- ELLISBURG, NORTH BRANCH COOPER RIVER AT 163
- ELMWOOD PARK, FLEISCHER BROOK AT MARKET ST 157
  - PASSAIC RIVER AT ROUTE 46 AT 206
- ENGLEWOOD, METZLER BROOK AT 157
- ESTELL MANOR, TUCKAHOE RIVER NEAR 305
- EWANVILLE, NORTH BRANCH RANCOCAS CREEK AT 394
- EXPLANATION OF WATER-QUALITY RECORDS 26-30
- EXPLANATION OF SURFACE-WATER RECORDS 17-25
- EXTONVILLE, CROSSWICKS CREEK AT 133,373

F

- FAR HILLS, NORTH BRANCH RARITAN RIVER NEAR 79,222
  - PEAPACK BROOK AT 153
- FARMINGDALE, MINGAMAHONE BROOK AT 161
- FARRINGTON DAM, LAWRENCE BROOK AT 91
- FECAL COLIFORM BACTERIA, DEFINITION 4
- FECAL STREPTOCOCCAL BACTERIA, DEFINITION 4
- FIELD DATA, ACCURACY OF, COMPUTED RESULTS 23
- FLAT BROOK NEAR FLATBROOKVILLE 119,322
- FLEISCHER BROOK AT MARKET ST, ELMWOOD PARK 157
- FLEMINGTON, WALNUT BROOK NEAR 158
- FOLSOM, GREAT EGG HARBOR RIVER AT 113,294
- FOURMILE BRANCH AT NEW BROOKLYN 111,286
  - AT WINSLOW CROSSING 154,281
- FRANKFORT, ROYCE BROOK TRIBUTARY AT 227
- FRANKLINVILLE, SCOTLAND RUN NEAR 307
- FURNACE BROOK AT OXFORD 162

G

- GAGE HEIGHT, DEFINITION 6
- GAGING STATION, DEFINITION 7
  - RECORDS 62-149
- GLASSBORO, MANTUA CREEK AT 155
  - MANTUA CREEK AT GREENTREE ROAD AT 155
- GLOUCESTER COUNTY, GROUND WATER 456
- GODEFFROY, N.Y., NEVERSINK RIVER AT 117
- GRASSY SOUND AT WEST WILDWOOD 180
- GREAT CHANNEL AT STONE HARBOR 180
- GREAT EGG HARBOR BAY AT BEESLEYS POINT 179
- GREAT EGG HARBOR RIVER AT BERLIN 285
  - AT FOLSOM 113,294
  - AT MAYS LANDING 303
  - AT OCEAN CITY 173,179
  - AT WEYMOUTH 301
  - AT WINSLOW CROSSING 276
  - NEAR BLUE ANCHOR 112,284
  - NEAR SICKLERVILLE 286
  - TRIBUTARY AT SICKLERVILLE 110,269
  - TRIBUTARY NO 2 AT WINSLOW CROSSING 279
- GREAT EGG HARBOR RIVER BASIN 110-113,285-304
- GREEN ALGAE, DEFINITION 10
- GREEN BROOK AT GREEN BROOK 160
  - AT NORTH PLAINFIELD 160
  - AT PLAINFIELD 88
  - AT ROCK AVE., PLAINFIELD 160
  - NEAR WEST MILFORD 152
- GREEN LANE RESERVOIR, PA 145,148
- GREENWOOD BRANCH AT NEW LISBON 392
- GREENWOOD LAKE 68,69
- GROVEVILLE, DOCTORS CREEK AT 162
- GROUND-WATER QUALITY RECORDS 448

H

- HACKENSACK RIVER AT NEW MILFORD 46,185
  - AT RIVERVALE 44,183
  - AT WEST NYACK, N.Y 43
  - DIVERSIONS 48
  - GAGING-STATION RECORDS IN 43-46
  - RESERVOIRS IN 47
    - ELEVATION 47
- HACKENSACK RIVER BASIN 43-48,183-185
- HACKETTSTOWN, MUSCONETCONG RIVER AT 162
- HADDONFIELD, COOPER RIVER AT 130,405
- HAINESPORT, SOUTH BRANCH RANCOCAS CREEK AT 384
- HAMMONTON, ALBERTSON BROOK NEAR 154
- HARDNESS, DEFINITION 7
- HARRISVILLE, OSWEGO RIVER AT 108
- HART BROOK NEAR PENNINGTON 159
- HAYCOCK BROOK AT POMPTON LAKES 152
- HAYS MILLS CREEK NEAR CHESILHURST 161
- HEAD OF RIVER, TUCKAHOE RIVER AT 114,306
- HIGH BRIDGE, SOUTH BRANCH RARITAN RIVER NEAR 75,212
  - SPRUCE RUN NEAR 152
- HIGH TIDE, DEFINITION 4
- HOHOKUS BROOK AT ALLENDALE 158
  - AT HOHOKUS 158
- HONEY BRANCH NEAR MOUNT ROSE 159
  - NEAR ROSEDALE 159
- HOPATCONG, LAKE 145,148
- HOSPITALITY BRANCH AT BERRYLAND 299
  - AT PENNY POT 300
- HUDSON RIVER BASIN 42,182
- HUNTSVILLE, PEQUEST RIVER AT 161
- HURDTOWN, WELDON BROOK AT 155
- HYDROLOGIC BENCH-MARK STATION 135,386
  - DEFINITION 14

I

- INSTANTANEOUS DISCHARGE, DEFINITION 6
- INTRODUCTION 1

PAGE

- IRELAND BROOK AT PATRICKS CORNER 153
  - NORTH BRANCH, NEAR LAKEWOOD 100
  - SOUTH BRANCH, NEAR LAKEWOOD 101
- IRESICK BROOK AT EAST SPOTSWOOD 153

J

- JADWIN, GENERAL EDGAR, RESERVOIR, PA 143,146
- JENKINS, TULPEHOCKEN CREEK NEAR 155
  - WEST BRANCH WADING RIVER NEAR 107
- JUMPING BROOK NEAR NEPTUNE CITY 98

K

- KEY GAGING STATION DATA 32-34
- KINGSTON, DELAWARE AND RARITAN CANAL AT 129
- KIRKWOOD, COOPER RIVER AT 163

L

- LAKES AND RESERVOIRS
  - BELTZVILLE LAKE 145,148
  - BOONTON RESERVOIR 67,68
  - CANISTEAR RESERVOIR 67,68
  - CANNONSVILLE, N.Y., RESERVOIR 143,146
  - CHARLOTTEBURG RESERVOIR 67,69
  - CLIFF LAKE, N.Y 144,147
  - CLINTON RESERVOIR 67,69
  - DE FOREST, LAKE, N.Y 47
  - ECHO LAKE 67,69
  - GREEN LANE RESERVOIR, PA 145,148
  - GREENWOOD LAKE 68,69
  - HOPATCONG, LAKE 145,148
  - JADWIN, GENERAL EDGAR, RESERVOIR, PA 143,146
  - NEVERSINK RESERVOIR, N.Y 144,147
  - OAK RIDGE RESERVOIR 67,68
  - ORADELL RESERVOIR 47
  - PENN FOREST RESERVOIR, PA 145,147
  - PEPACTON RESERVOIR, N.Y 143,146
  - POINT VIEW RESERVOIR 78
  - PROMPTON RESERVOIR, PA 143,146
  - ROUND VALLEY RESERVOIR 94
  - SPLITROCK RESERVOIR 67,68
  - SPRUCE RUN RESERVOIR 94
  - STILL CREEK RESERVOIR, PA 145,148
  - SWINGING BRIDGE RESERVOIR, N.Y 144,146
  - TAPPAN, LAKE 47
  - TORONTO RESERVOIR, N.Y 144,147
  - WALLENPAUPACK, LAKE, PA 143,146
  - WALTER, FRANCIS E., RESERVOIR, PA 144,147
  - WANAQUE RESERVOIR 68,69
  - WILD CREEK RESERVOIR, PA 145,147
  - WOODCLIFF LAKE 47
- LAKEWOOD, NORTH BRANCH METEDECONK RIVER NEAR 100
  - SOUTH BRANCH METEDECONK RIVER AT 101
- LAMINGTON (BLACK) RIVER NEAR POTTERSVILLE 88
- LAUREL SPRINGS, NORTH BRANCH BIG TIMBER C AT 163
- LAURELTON, METEDECONK RIVER NEAR 179
- LAWRENCE BROOK AT FARRINGTON DAM 92
  - AT OUTLET OF DAVIDSONS MILL POND 153
- LEBANON STATE FOREST, MCDONALDS BRANCH IN 135,386
  - MOUNT MISERY BROOK, MIDDLE BRANCH IN 163
- LEHIGH RIVER AT BETHLEHEM, PA 126
- LITTLE FALLS, PASSAIC RIVER AT 65,204
- LODI, SADDLE RIVER AT 66,209
- LOW-FLOW PARTIAL-RECORD STATIONS 151-156
- LOW TIDE, DEFINITION 7

M

- MACOPIN INTAKE DAM, PEQUANNOCK RIVER AT 55,195
- MAHWAH, RAMAPO RIVER NEAR 62,198
- MAHWAH RIVER NEAR SUFFERN, N.Y 61
- MAJOR RUN AT SHARPTOWN 156
- MANAHAWKIN BAY NEAR MANAHAWKIN 179
- MANALAPAN BROOK AT SPOTSWOOD 92,245
  - AT BRIDGE ST, SPOTSWOOD 153
- MANANTICO CREEK NEAR PORT ELIZABETH 313
- MANASQUAN RIVER AT ALLENWOOD 161
  - AT SQUANKUM 99,247
  - NEAR GEORGIA 160
- MANASQUAN RIVER BASIN 99,247
- MANTUA CREEK AT GLASSBORO 155
  - AT GREENTREE ROAD, GLASSBORO 155
  - AT MANTUA 419
  - AT PITMAN 140,417
  - AT SALINA 184
- MANTUA, MANTUA CREEK AT 419
- MANUMUSKIN CREEK NEAR MANUMUSKIN 314
- MANVILLE, MILLSTONE RIVER NEAR 229
  - RARITAN RIVER AT 83
  - RARITAN RIVER NEAR 224
- MAURICE RIVER AT BIVALVE 180
  - AT NORMA 115,308
  - AT SHARP STREET AT MILLVILLE 312
  - NEAR MILLVILLE 311
- MAURICE RIVER BASIN 115,307-314
- MAYS LANDING, BABCOCK CREEK NEAR 304
  - GREAT EGG HARBOR RIVER AT 303
- MCDONALDS BRANCH IN LEBANON STATE FOREST 135,386
- MEAN CONCENTRATION, DEFINITION 12
- MEAN DISCHARGE, DEFINITION 6
- MEAN HIGH OR LOW TIDE, DEFINITION 4
- MEDFORD, SW BRANCH RANCOCAS CK AT 162
- METEDECONK RIVER NEAR LAURELTON 179

PAGE

- METEDECONK RIVER BASIN 100,101
- METHYLENE BLUE ACTIVE SUBSTANCE, DEFINITION 7
- METZLER BROOK AT ENGLEWOOD 157
- MICROGRAMS PER LITRE, DEFINITION 7
- MIDDLEBUSH, SIX MILE RUN NEAR 100
- MIDDLESEX, BOUND BROOK AT 90
- MIDDLESEX COUNTY, GROUND WATER 458
- MIDDLE VALLEY, SOUTH BRANCH RARITAN R. AT 152
- MILL CREEK NEAR MILLVILLE 155
- MILLIGRAMS PER LITRE, DEFINITION 7
- MILLINGTON, DEAD RIVER NEAR 151
  - PASSAIC RIVER NEAR 50,186
- MILLSTONE RIVER AT BLACKWELLS MILLS 86
  - AT PLAINSBORO 84,225
  - NEAR MANVILLE 229
- MILLVILLE, MAURICE RIVER AT SHARP STREET AT 312
  - MAURICE RIVER NEAR 311
  - MILL CREEK NEAR 155
- MINGAMAHONE BROOK AT FARMINGDALE 161
- MONKS, WANAQUE RIVER AT 57
- MONMOUTH COUNTY, GROUND WATER 459
- MONONGAHELA BRANCH AT WENONAH 418
- MONTAGUE, DELAWARE RIVER AT 119
- MORSETOWN BROOK AT WEST MILFORD 151
- MORRISTOWN, WHIPPANY RIVER AT 56,191
- MOUNT HOLLY, NORTH BRANCH RANCOCAS C AT PINE ST AT. 395
- MOUNT MISERY BROOK, MIDDLE BRANCH, IN LEBANON STATE FOREST 163
- MOUNT ROSE, HONEY BRANCH NEAR 159
- MUDDY RUN NEAR NORMA 310
- MULHOCKAWAY CREEK AT VAN SYCKEL 152
  - TRIBUTARY AT VAN SYCKEL 152
- MULLICA HILL, RACCOON CREEK NEAR 427
- MULLICA RIVER AT ATSION 153
  - NEAR ATCO 161
  - NEAR BASTO 105
  - NEAR PORT REPUBLIC 179
  - TRIBUTARY AT ATSION 153
- MULLICA RIVER BASIN 105-180
- MUSCONETCONG RIVER AT HACKETTSTOWN 162
  - AT STANHOPE 155
  - NEAR BLOOMSBURY 128,345
- MUSQUAPSINK BROOK AT WESTWOOD 157
  - NEAR WESTWOOD 151,157

N

- NAVESINK RIVER BASIN 96
- NEPTUNE CITY, JUMPING BROOK NEAR 98
  - SHARK RIVER NEAR 97
- NESCOCHAGUE CREEK AT PLEASANT MILLS 154
- NESHANIC RIVER AT REAVILLE 78
- NEVERSINK RESERVOIR 144,147
- NEVERSINK RIVER AT GODEFFROY, N.Y 117
- NEW BROOKLYN, FOURMILE BRANCH AT 111,284
- NEW EGYPT, CROSSWICKS CREEK AT 162
- NEW LISBON, GREENWOOD BRANCH AT 392
- NEW MILFORD, HACKENSACK RIVER AT 46,185
- NEWTON CREEK AT COLLINGSWOOD 163
  - SOUTH BRANCH AT HADDON HEIGHTS 163
- NEWTON, PAULINS KILL NEAR 155
- NEW VILLAGE, POHATCONG CREEK AT 162
- NICHOMUS RUN NEAR WOODSTOWN 156
- NORMA, MAURICE RIVER AT 115,308
  - MUDDY RUN NEAR 310
- NORTH BRANCH BIG TIMBER CREEK AT BERLIN ROAD AT CLEMENTON 413
- NORTH BRANCH RANCOCAS CREEK AT BROWNS MILLS 385
  - AT EWANVILLE 394
  - AT PEMBERTON 136,393
  - AT PINE STREET AT MOUNT HOLLY 395
- NORTH BRANCH RARITAN RIVER NEAR FAR HILLS 79,222
  - NEAR RARITAN 82,223
- NORWOOD, DWARS KILL AT 151
  - TENAKILL BROOK TRIBUTARY AT 151

O

- OAKEYS BROOK NEAR PATRICKS CORNER 153
- OAK RIDGE RESERVOIR DATA 67,68
- OAKWOOD BEACH, DELAWARE RIVER AT 180
- OCEAN CITY, CROOK HORN CREEK AT 172
  - GREAT EGG HARBOR BAY AT 172,179
- OCEAN COUNTY, GROUND WATER 461
- OLD BRIDGE, SOUTH RIVER AT 93
- OLDMANS CREEK AT PORCHES MILL 430
  - NEAR HARRISONVILLE 164
- ORADELL RESERVOIR DATA 47
- ORGANIC WEIGHT, DEFINITION 5
- OSWEGO RIVER AT HARRISVILLE 108
  - AT OSWEGO LAKE 155
- OTHER DATA AVAILABLE 24
- OXFORD, FURNACE BROOK AT 162
- OYSTER CREEK BASIN 103,259
- OYSTER CREEK NEAR BROOKVILLE 103,259

P

- PALMYRA, DELAWARE RIVER AT 176
- PARTIAL-RECORD STATIONS, CREST-STAGE 157-164
  - DEFINITION 7
  - LOW-FLOW 151-156
  - TIDAL CREST-STAGE 179,180
- PARTICLE SIZE, DEFINITION 8

PAGE

- PARTICLE-SIZE CLASSIFICATION 8
- PASCACK BROOK AT WESTWOOD 45
- PASSAIC RIVER AT LITTLE FALLS 65,204
  - AT ROUTE 46 AT ELMWOOD PARK 157,206
  - AT ROUTE 46 AT SINGAC 69,201
  - AT TWO BRIDGES 194
  - NEAR BERNARDSVILLE 49
  - NEAR CHATHAM 51,188
  - NEAR MILLINGTON 50,186
- PASSAIC RIVER BASIN 49-70,186-209
- PASSAIC RIVER BASIN, CREST-STAGE PARTIAL-RECORD STATIONS IN 157,158
  - DIVERSIONS 51
  - GAGING-STATION RECORDS IN 49-66
  - LOW-FLOW PARTIAL-RECORD STATIONS IN 151,152
  - RESERVOIRS IN 67-69
    - ELEVATION 69,70
- PATRICKS CORNER, OAKEYS BROOK NEAR 153
  - BEAVERDAM BROOK NEAR 153
  - IRELAND BROOK AT 153
- PAULINS KILL AT BLAIRSTOWN 121
  - AT NEWTON 155
  - AT PAULINS KILL 155
- PEAPACK BROOK AT FAR HILLS 153
- PEMBERTON, NORTH BRANCH RANCOCAS CREEK AT 136,393
- PENN FOREST RESERVOIR, PA 145,147
- PENNINGTON, BALDWIN CREEK AT 159
  - HART BROOK NEAR 159
  - HONEY BRANCH NEAR 159
  - STONY BROOK AT 159
- PENNSAUKEN CREEK, SOUTH BRANCH, AT CHERRY HILL 137
- PENNY POT, HOSPITALITY BRANCH AT 300
- PEPACTON RESERVOIR, N.Y 143,146
- PEQUANNOCK RIVER AT MACOPIN INTAKE DAM 55,195
- PEQUEST RIVER AT HUNTSVILLE 161
  - AT PEQUEST 123,335
- PERIPHYTON, DEFINITION 9
- PESTICIDES, DEFINITION 8
- PHILADELPHIA, PA, DELAWARE RIVER AT BENJAMIN FRANKLIN BRIDGE AT 406
  - DELAWARE RIVER AT FORT MIFFLIN AT 415
  - DELAWARE RIVER AT TORRESDALE INTAKE AT 398
  - SCHUYLKILL RIVER AT 139
- PHYTOPLANKTON, DEFINITION 10
- PICOCURIE, DEFINITION 10
- PINE BROOK, ROCKAWAY RIVER AT 190
  - WHIPPANY RIVER NEAR 193
- PITMAN, MANTUA CREEK AT 140,417
- PLAINFIELD, GREEN BROOK AT 88
- PLAINSBORO, MILLSTONE RIVER AT 84,225
- PLANKTON, DEFINITION 10
- PLEASANT MILLS, BATSO RIVER AT 172,179
  - NESCOCHAGUE CREEK AT 154
- POHATCONG CREEK AT NEW VILLAGE 162
- POINT VIEW RESERVOIR 70
- POMPESTON CREEK AT CINNAMINSON 163
- POMPTON LAKES, HAYCOCK BROOK AT 152
  - RAMAPO RIVER AT 63
- POMPTON PLAINS, POMPTON RIVER AT 64,199
- POMPTON RIVER AT POMPTON PLAINS 64,199
  - AT TWO BRIDGES 200
- PORCHES MILL, OLDMANS CREEK AT 430
- PORT ELIZABETH, MANANTICO CREEK NEAR 313
- PORT JERVIS, N.Y., DELAWARE RIVER AT 116
- PORT REPUBLIC, MULLICA RIVER NEAR 179
- POTTERSVILLE, LAMINGTON (BLACK) RIVER NEAR 80
  - UPPER COLD BROOK NEAR 81
- PRINCETON, STONY BROOK AT 85,226
- PROMPTON RESERVOIR, PA 143,146

R

- RACCOON CREEK NEAR MULLICA HILL 427
  - NEAR SWEDESBORO 141,428
- RADIOISOTOPES, DEFINITION 11
- RAHWAY, RAHWAY RIVER AT 73
  - ROBINSONS BRANCH RAHWAY RIVER AT 74
- RAHWAY RIVER AT RAHWAY 73
  - NEAR SPRINGFIELD 72
- RAHWAY RIVER BASIN 72-74
- RAMAPO RIVER AT POMPTON LAKES 63
  - NEAR MAHWAH 62,198
- RAMSEY BROOK AT ALLENDALE 158
- RANCOCAS CREEK AT CENTERTON 396
  - AT WILLINGBORO 397
  - NORTH BRANCH, AT BROWNS MILLS 385
    - AT EWANVILLE 394
    - AT PEMBERTON 136,393
    - AT PINE STREET AT MOUNT HOLLY 395
  - SOUTH BRANCH, AT HAINESPORT 384
    - AT RETREAT 381
    - AT VINCENTOWN 134,382
  - SOUTHWEST BRANCH, AT EAYRESTOWN 383
- RARITAN RIVER AT MANVILLE 83
  - BELOW CALCO DAM, AT BOUND BROOK 87
  - NEAR MANVILLE 224
  - NEAR SOUTH BOUND BROOK 230
  - NORTH BRANCH, NEAR FAR HILLS 79,222
    - NEAR RARITAN 82,223
  - SOUTH BRANCH, AT STANTON 77,218
    - AT OUTLET OF BUDD LAKE 152
    - NEAR HIGH BRIDGE 75,212
    - TRIBUTARY NO.6 AT BUDD LAKE 152
    - TRIBUTARY NO.7 AT BUDD LAKE 152

PAGE

RARITAN RIVER BASIN............ 75-95,212-246
RARITAN RIVER BASIN, CREST-STAGE PARTIAL-RECORD
    STATIONS IN............ 158-160
  DIVERSIONS............ 95
  GAGING-STATION RECORDS IN............ 75-93
  LOW-FLOW PARTIAL-RECORD STATIONS IN............ 152,153
  RESERVOIRS IN............ 94
    ELEVATION............ 94
REAVILLE, NESHANIC RIVER AT............ 78
RED BANK, SWIMMING RIVER NEAR............ 96
RESERVOIRS. SEE LAKES AND RESERVOIRS
RETREAT, SOUTH BRANCH RANCOCAS CREEK AT............ 381
RIDGEFIELD, WOLF CREEK AT............ 157
RIDGEWOOD, SADDLE RIVER AT............ 157
RIEGELSVILLE, DELAWARE RIVER AT............ 162
RINGWOOD CREEK NEAR WANAQUE............ 58
RIVER MILE, DEFINITION............ 11
RIVERVALE, HACKENSACK RIVER AT............ 44,183
ROBINSONS BRANCH RAHWAY RIVER AT RAHWAY............ 74
ROCHELLE PARK, SPROUT BROOK AT............ 158
ROCKAWAY RIVER ABOVE RESERVOIR, AT BOONTON............ 52,189
  AT PINE BROOK............ 190
  BELOW RESERVOIR, AT BOONTON............ 53
ROCK BROOK AT BLAWENBURG............ 160
ROCKY HILL, BEDEN BROOK NEAR............ 160
ROSEDALE, HONEY BRANCH NEAR............ 159
ROUND VALLEY RESERVOIR DATA............ 94
ROYCE BROOK TRIBUTARY AT FRANKFORT............ 227
  NEAR BELLE MEAD............ 228
RUNNEMEDE, ALMONESSON CREEK AT............ 414
RUNOFF IN INCHES, DEFINITION............ 11

S

SADDLE RIVER AT LODI............ 66,209
  AT RIDGEWOOD............ 157
  AT UPPER SADDLE RIVER............ 152,157
SALEM COUNTY, GROUND WATER............ 464
SALEM RIVER AT COURSES LANDING............ 439
  AT SHARPTOWN............ 156
  AT WOODSTOWN............ 142,438
SALINA, MANTUA CREEK AT............ 164
SCHUYLKILL RIVER AT PHILADELPHIA, PA............ 139
SCOTLAND RUN NEAR FRANKLINVILLE............ 307
SECOND RIVER AT BELLEVILLE............ 158
SEDIMENT............ 29
SEDIMENT, DEFINITION............ 11
SEELEY, COHANSEY RIVER AT............ 319
  WEST BRANCH COHANSEY RIVER AT............ 161
SELECTED REFERENCES............ 37
SHARK RIVER BASIN............ 97,98
SHARK RIVER NEAR NEPTUNE CITY............ 97
SHARPTOWN, MAJOR RUN AT............ 156
  SALEM RIVER AT............ 156
SHIPETAUKIN CREEK AT BAKERSVILLE............ 366
SICKLERVILLE, EAST STORM DRAIN-WINSLOW CROSSING NR. 278
  GREAT EGG HARBOR RIVER NEAR............ 266
  GREAT EGG HARBOR RIVER TRIBUTARY AT............ 269
SINGAC, PASSAIC RIVER AT ROUTE 46 AT............ 201
SIX MILE RUN NEAR MIDDLEBUSH............ 160
SLEEPER BRANCH AT BATSTO............ 154
SOLUTE, DEFINITION............ 12
SOUTH BOUND BROOK, RARITAN RIVER NEAR............ 230
SOUTH BRANCH RANCOCAS CREEK AT HAINESPORT............ 384
  AT RETREAT............ 381
  AT VINCENTOWN............ 134,382
SOUTH BRANCH RARITAN RIVER AT STANTON............ 77,218
  NEAR HIGH BRIDGE............ 75,212
SOUTHWEST BRANCH RANCOCAS CREEK AT EAYRESTOWN............ 383
  AT MEDFORD............ 162
SOUTH RIVER AT OLD BRIDGE............ 93
SPECIAL NETWORKS AND PROGRAMS............ 14
SPECIFIC CONDUCTANCE, DEFINITION............ 12
SPLITROCK RESERVOIR DATA............ 67,68
SPOTSWOOD, MANALAPAN BROOK AT............ 92,245
  MANALAPAN BROOK AT BRIDGE STREET AT............ 153
SPRINGFIELD, RAHWAY RIVER NEAR............ 72
SPRINGERS BROOK NEAR ATSION............ 154
SPROUT BROOK AT ROCHELLE PARK............ 158
SPRUCE RUN AT CLINTON............ 76,216
  NEAR HIGH BRIDGE............ 152
SPRUCE RUN RESERVOIR DATA............ 94
SQUANKUM, MANASQUAN RIVER AT............ 99,247
SQUANKUM BRANCH AT MALAGA ROAD NEAR WILLIAMSTOWN... 293
STAFFORD FORGE, WESTECUNK CREEK AT............ 104
STAGE-DISCHARGE RELATION, DEFINITION............ 12
STANHOPE, MUSCONETCONG RIVER AT............ 155
STANTON, SOUTH BRANCH RARITAN RIVER AT............ 77,218
STILL CREEK RESERVOIR, PA............ 145,148
STONE HARBOR, GREAT CHANNEL AT............ 180
STONY BROOK AT GLENMOORE............ 159
  AT PENNINGTON............ 159
  AT PRINCETON............ 85,226
  AT WATCHUNG............ 89
STREAMFLOW, DEFINITION............ 12
SUFFERN, N.Y., MAHWAH RIVER NEAR............ 61
SURFACE-WATER QUALITY RECORDS............ 182
SUSPENDED SEDIMENT, DEFINITION............ 11
SUSPENDED-SEDIMENT CONCENTRATION, DEFINITION............ 12
SUSPENDED-SEDIMENT DISCHARGE, DEFINITION............ 12
SWEDESBORO, RACCOON CREEK NEAR............ 141,428
SWIMMING RIVER NEAR RED BANK............ 96
SWINGING BRIDGE RESERVOIR, N.Y., DATA............ 144,146

T

TAPPAN LAKE............ 47
TEMPERATURE............ 29
TENAKILL BROOK AT CLOSTER............ 151,157
  AT CRESSKILL............ 151,157
  AT NORWOOD, TRIBUTARY............ 151

PAGE

TERMS, DEFINITION............ 3-13
THERMOGRAPH, DEFINITION............ 13
TIDE DEFINITIONS............ 7
TOCKS ISLAND DAMSITE, DELAWARE RIVER BELOW, NEAR
    DELAWARE WATER GAP, PA............ 184
TOMS RIVER BASIN............ 102,248-258
TOMS RIVER NEAR TOMS RIVER............ 102,248
TONS PER DAY, DEFINITION............ 13
TORONTO RESERVOIR, N.Y............ 144,147
TOTAL, DEFINITION............ 13
TOTAL COLIFORM BACTERIA, DEFINITION............ 13
TOTAL SEDIMENT DISCHARGE, DEFINITION............ 12
TRENTON, ASSUNPINK CREEK AT............ 132,367
  DELAWARE RIVER AT............ 130,346
  DELAWARE RIVER AT MARINE TERMINAL AT............ 174,369
TULPEHOCKEN CREEK NEAR JENKINS............ 155
TUCKAHOE RIVER AT HEAD OF RIVER............ 114,306
  NEAR ESTELL MANOR............ 305
TUCKAHOE RIVER BASIN............ 114,305-306
TUCKERTON, SHOOTING THORO AT OLD COAST GUARD STA... 171
  TUCKERTON COVE NEAR............ 179
TWO BRIDGES, PASSAIC RIVER AT............ 194
  POMPTON RIVER AT............ 200

U

UNIONVILLE, N.Y., WALLKILL RIVER NEAR............ 42,182
UPPER COLD BROOK NEAR POTTERSVILLE............ 81
UPPER SADDLE RIVER, SADDLE RIVER AT............ 151,157

V

VAN SYCKEL, MULHOCKAWAY CREEK AT............ 152
  MULHOCKAWAY CREEK TRIBUTARY AT............ 152
VINCENTOWN, SOUTH BRANCH RANCOCAS CREEK AT............ 134,382

W

WALLENPAUPACK, LAKE, PA............ 143,146
WALLKILL RIVER NEAR UNIONVILLE, N.Y............ 42,182
WALNUT BROOK NEAR FLEMINGTON............ 158
WALTER, FRANCIS E., RESERVOIR, PA............ 144,147
WANAQUE, RINGWOOD CREEK NEAR............ 58
  WANAQUE RIVER AT............ 60,196
  WEST BROOK NEAR............ 59
WANAQUE RESERVOIR DATA............ 68,69
WANAQUE RIVER AT AWOSTING............ 56
  AT MONKS............ 57
  AT WANAQUE............ 60,196
WATCHUNG, STONY BROOK AT............ 89
WATER-QUALITY CONDITIONS............ 35
WATER-SUPPLY PAPERS............ 38
WEASEL BROOK AT CLIFTON............ 158
WEBBS MILL BRANCH NEAR WHITING............ 153
  TRIBUTARY TO, NEAR WHITING............ 153
WELDON BROOK AT HURDTOWN............ 155
WELL NUMBER............ 13,16
WENONAH, MONONGAHELA BRANCH AT............ 418
WEST BRANCH WADING RIVER NEAR CHATSWORTH............ 154
  NEAR JENKINS............ 107
WEST BROOK NEAR WANAQUE............ 59
WEST MILFORD, BELCHER CREEK AT............ 151
  BELCHER CREEK AT STOWAWAY ROAD AT............ 151
  BELCHER CREEK TRIBUTARY AT............ 151
  COOLEY BROOK NEAR............ 152
  GREEN BROOK NEAR............ 152
  MORESTOWN BROOK AT............ 151
WEST OUTLET NEW BROOKLYN LAKE AT WINSLOW CROSSING.. 275
    AT WINSLOW CROSSING, N.J............ 275
WESTECUNK RIVER BASIN............ 104
WESTECUNK CREEK AT STAFFORD FORGE............ 104
WEST NYACK, N.Y., HACKENSACK RIVER AT............ 43
WEST ORANGE, EAST FORK EAST BRANCH RAHWAY R AT..... 158
WEST WILDWOOD, GRASSY SOUND AT............ 180
WESTWOOD, MUSQUAPSINK BROOK AT............ 157
  MUSQUAPSINK BROOK NEAR............ 151,157
  PASCACK BROOK AT............ 45
WET WEIGHT, DEFINITION............ 5
WEYMOUTH, DEEP RUN NEAR............ 302
  GREAT EGG HARBOR RIVER AT............ 301
WHIPPANY RIVER AT MORRISTOWN............ 54,191
  NEAR PINE BROOK............ 193
WHITING, WEBBS MILL BRANCH NEAR............ 153
  TRIBUTARY TO WEBBS MILL BRANCH NEAR............ 153
WILDCAT BRANCH AT CHESILHURST............ 154
WILD CREEK RESERVOIR, PA............ 145,147
WILMINGTON, DEL., DELAWARE RIVER AT DELAWARE
    RIVER MEMORIAL BRIDGE............ 166,431
WILLIAMSTOWN, SQUANKUM BRANCH AT MALAGA ROAD NEAR.. 293
WILLINGBORO, RANCOCAS CREEK AT............ 397
WINSLOW CROSSING, FOURMILE BRANCH AT............ 139,281
  GREAT EGG HARBOR RIVER AT............ 274
  GREAT EGG HARBOR RIVER TRIBUTARY NO. 2 AT............ 279
  WEST OUTLET NEW BROOKLYN LAKE AT............ 275
WOLF CREEK AT RIDGEFIELD............ 157
WOODCLIFF LAKE............ 47
WOODSTOWN, NICHOMUS RUN NEAR............ 156
  SALEM RIVER AT............ 142,438
WOODSVILLE BROOK AT WOODSVILLE............ 158
WRD, DEFINITION............ 13
WSP, DEFINITION............ 13

Y

YARDS CREEK NEAR BLAIRSTOWN............ 122

Z

ZOOPLANKTON, DEFINITION............ 18

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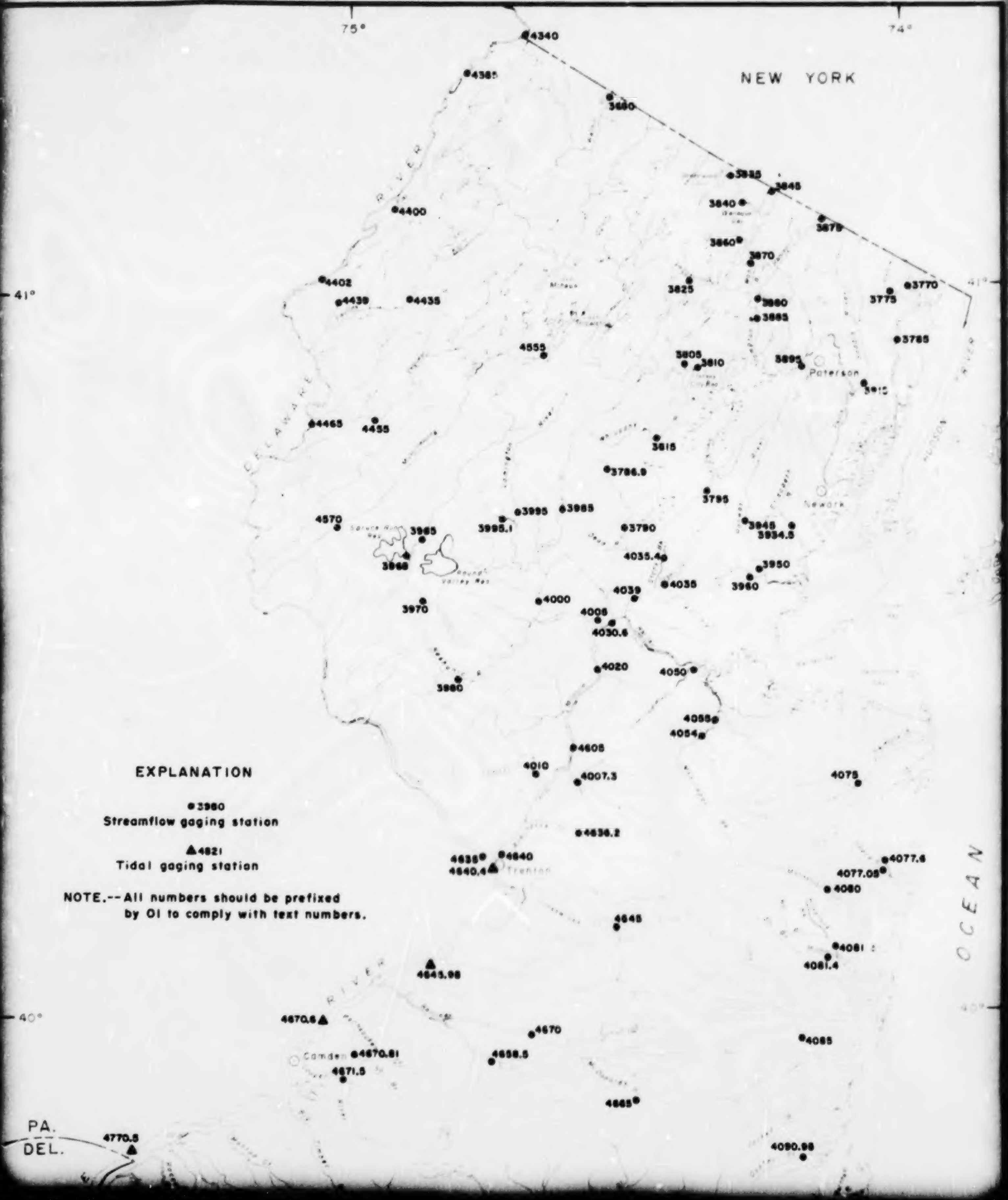
WATER RESOURCES DATA FOR NEW JERSEY, 1975


75°
74°
41°
40°
NEW YORK
DELAWARE RIVER
HUDSON RIVER
OCEAN
PA.
DEL.
Paterson
Newark
Trenton
Camden
Round Valley Res.
Spruce Run Res.
4340
4385
3680
3835
3845
3840
3875
3860
3870
3825
3770
3775
3880
3885
3785
3805
3810
3895
3910
4400
4402
4439
4435
4555
4465
4455
3815
3786.9
3795
4570
3965
3995.1
3995
3985
3790
3945
3934.5
3968
4035.4
3950
3960
4035
4039
4000
3970
4006
4030.6
4020
4050
3980
4055
4054
4605
4010
4007.3
4075
4636.2
4635
4640
4640.4
4077.6
4077.08
4080
4645
4081
4081.4
4645.98
4670.6
4670
4085
4670.81
4658.5
4671.5
4665
4770.5
4090.98

EXPLANATION

●3980
Streamflow gaging station

▲4821
Tidal gaging station

NOTE.--All numbers should be prefixed by 01 to comply with text numbers.

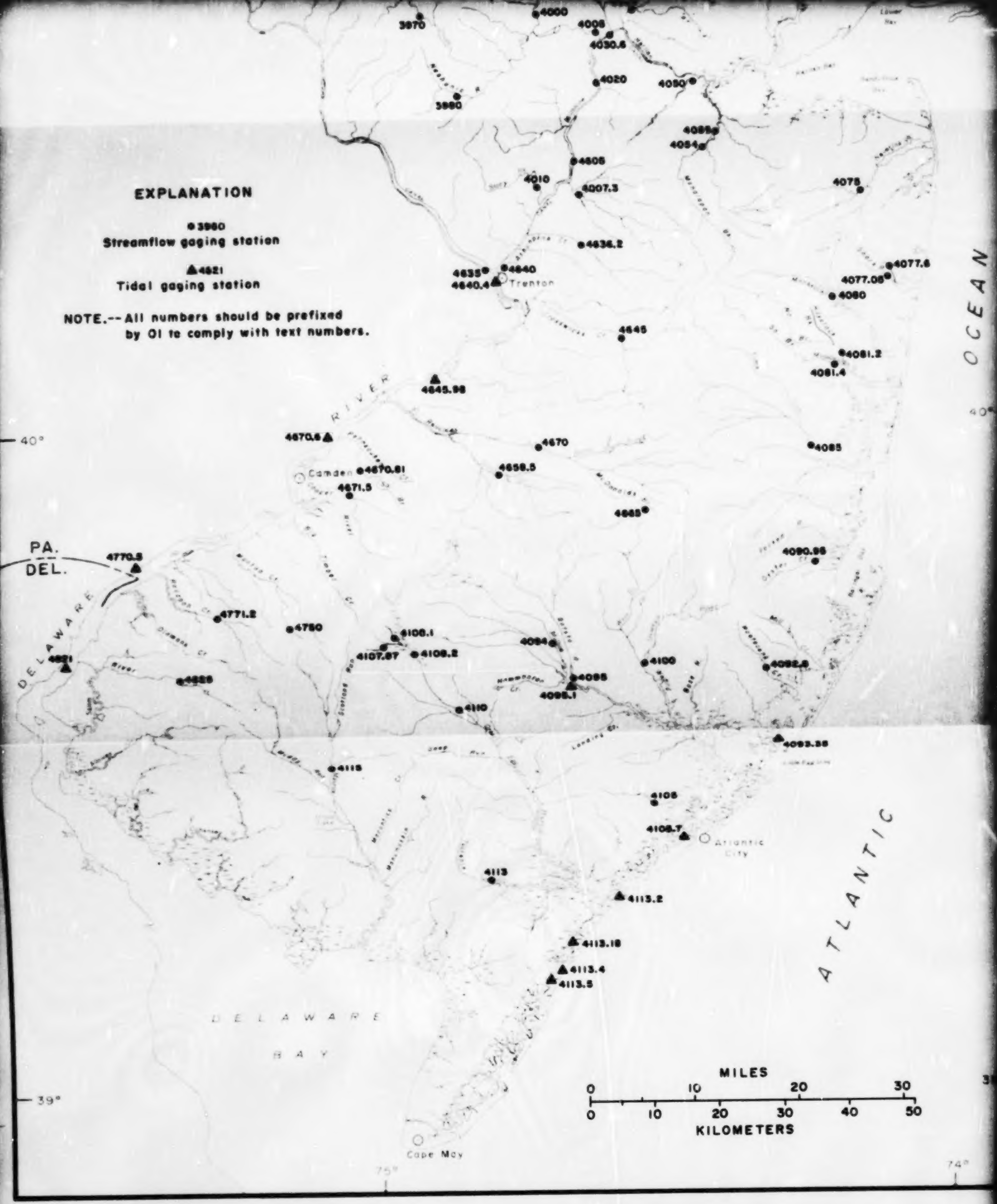
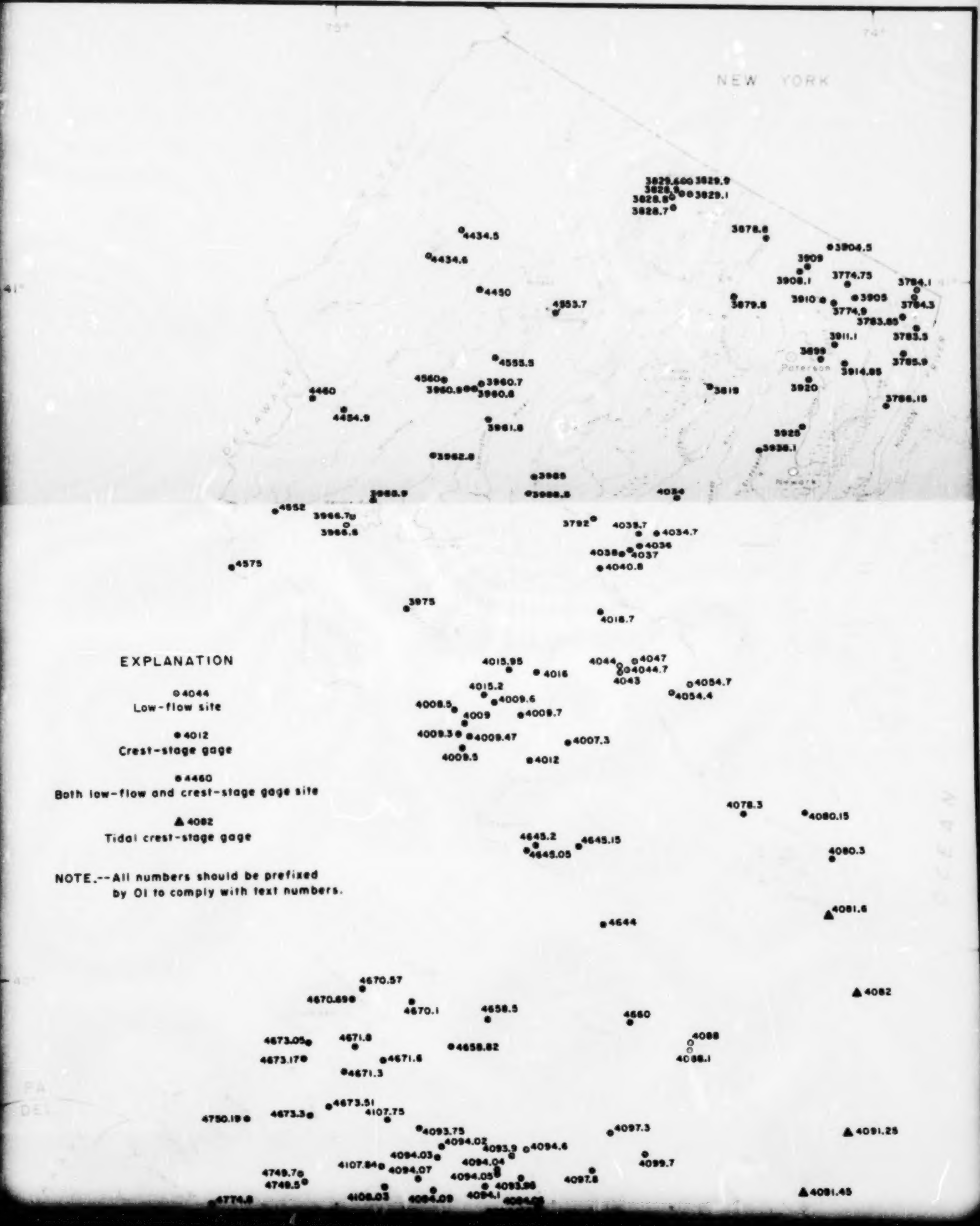

EXPLANATION
3960
Streamflow gaging station
4621
Tidal gaging station
NOTE.--All numbers should be prefixed by 01 to comply with text numbers.
3970
4000
4006
4030.6
4020
4050
3960
4085
4054
4605
4010
4007.3
4075
4636.2
4635
4640
4640.4
Trenton
4077.6
4077.05
4080
4645
4081.2
4081.4
4645.98
RIVER
4670.6
4670
4085
Camden
4670.81
4658.5
4671.5
4665
4090.95
PA.
DEL.
4770.5
4771.2
4750
4108.1
4094
4107.97
4108.2
DELAWARE
4621
4625
4100
4092.6
4095
4095.1
4110
4093.38
4115
4105
4108.7
Atlantic City
4113
4113.2
4113.18
4113.4
4113.5
DELAWARE BAY
ATLANTIC
OCEAN
MILES
0
10
20
30
0
10
20
30
40
50
KILOMETERS
Cape May
40°
39°
75°
74°

Figure 6.--Map showing location of gaging stations


75°
74°
NEW YORK
41°
40°
PA
DEL
DELAWARE
HUDSON RIVER
Paterson
Newark
OCEAN
3829.600
3829.9
3828.9
3829.1
3828.8
3828.7
3878.8
3904.5
3909
3908.1
3774.75
3784.1
4434.5
4434.6
4450
4553.7
3879.8
3910
3905
3774.9
3784.3
3783.85
3911.1
3783.5
3899
3914.85
3785.9
4555.5
4560
3960.7
3960.9
3960.8
4460
4464.9
3819
3920
3786.15
3961.8
3925
3938.1
3962.8
3965
3968.9
3968.8
4084
4552
3966.7
3966.8
3792
4035.7
4034.7
4036
4038
4037
4040.8
4575
3975
4016.7
4015.95
4016
4044
4047
4044.7
4043
4054.7
4054.4
4015.2
4009.6
4008.5
4009
4009.7
4009.3
4009.47
4007.3
4009.5
4012
4078.3
4080.15
4645.2
4645.15
4645.05
4080.3
4081.6
4644
4670.57
4670.698
4670.1
4658.5
4660
4082
4673.05
4671.8
4658.82
4088
4673.17
4671.6
4088.1
4671.3
4673.51
4107.75
4750.19
4673.3
4093.75
4097.3
4091.25
4094.02
4093.9
4094.6
4094.03
4094.04
4099.7
4107.84
4094.07
4749.7
4094.05
4749.5
4093.86
4097.8
4108.03
4094.09
4094.1
4094.08
4081.45
4774.8

EXPLANATION

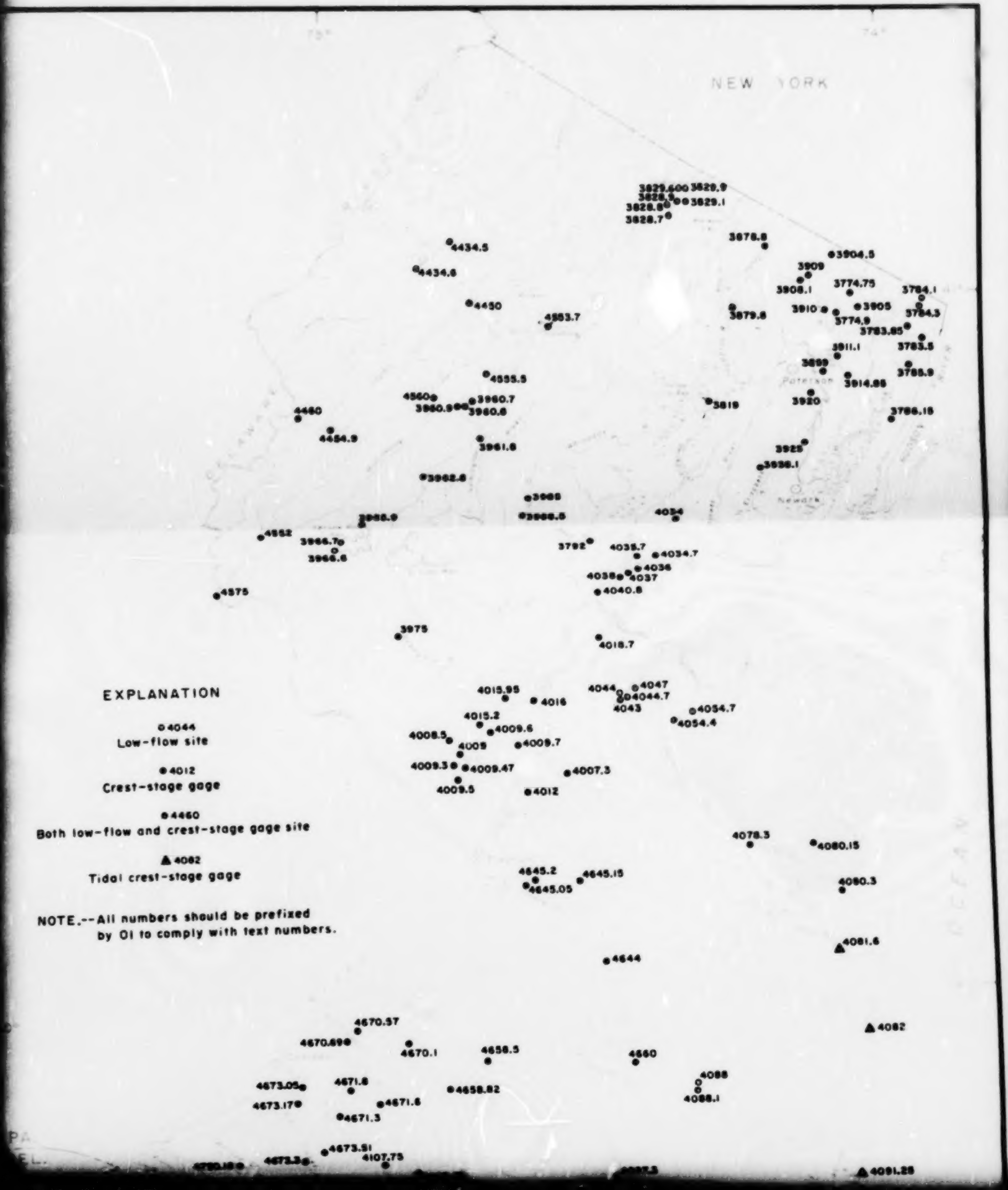
○4044
Low-flow site

●4012
Crest-stage gage

◉4460
Both low-flow and crest-stage gage site

▲4082
Tidal crest-stage gage

NOTE.--All numbers should be prefixed by 01 to comply with text numbers.


75°
74°
NEW YORK
3829.600
3829.9
3828.9
3829.1
3828.8
3828.7
4434.5
4434.6
4450
4553.7
3878.8
3904.5
3909
3908.1
3774.75
3784.1
3910
3905
3784.3
3879.8
3774.9
3783.85
3911.1
3783.5
3899
Paterson
3914.86
3785.9
4555.5
4560
3960.7
3960.9
3960.8
4460
3819
3920
3786.15
4454.9
3961.6
3925
3936.1
3962.6
Newark
3966
3966.5
4034
3966.9
4552
3966.7
3966.6
3792
4035.7
4034.7
4036
4038
4037
4040.8
4575
3975
4018.7
4015.95
4016
4044
4047
4044.7
4043
4054.7
4015.2
4054.4
4008.5
4009.6
4009
4009.7
4009.3
4009.47
4007.3
4009.5
4012
4078.3
4080.15
4645.2
4645.15
4645.05
4080.3
4081.6
4644
4670.37
4082
4670.69
4670.1
4658.5
4660
4088
4673.05
4671.6
4658.82
4088.1
4673.17
4671.8
4671.3
4673.51
4107.75
4673.3
4091.25
OCEAN

EXPLANATION

○ 4044
Low-flow site

● 4012
Crest-stage gage

◉ 4460
Both low-flow and crest-stage gage site

▲ 4082
Tidal crest-stage gage

NOTE.--All numbers should be prefixed by 01 to comply with text numbers.

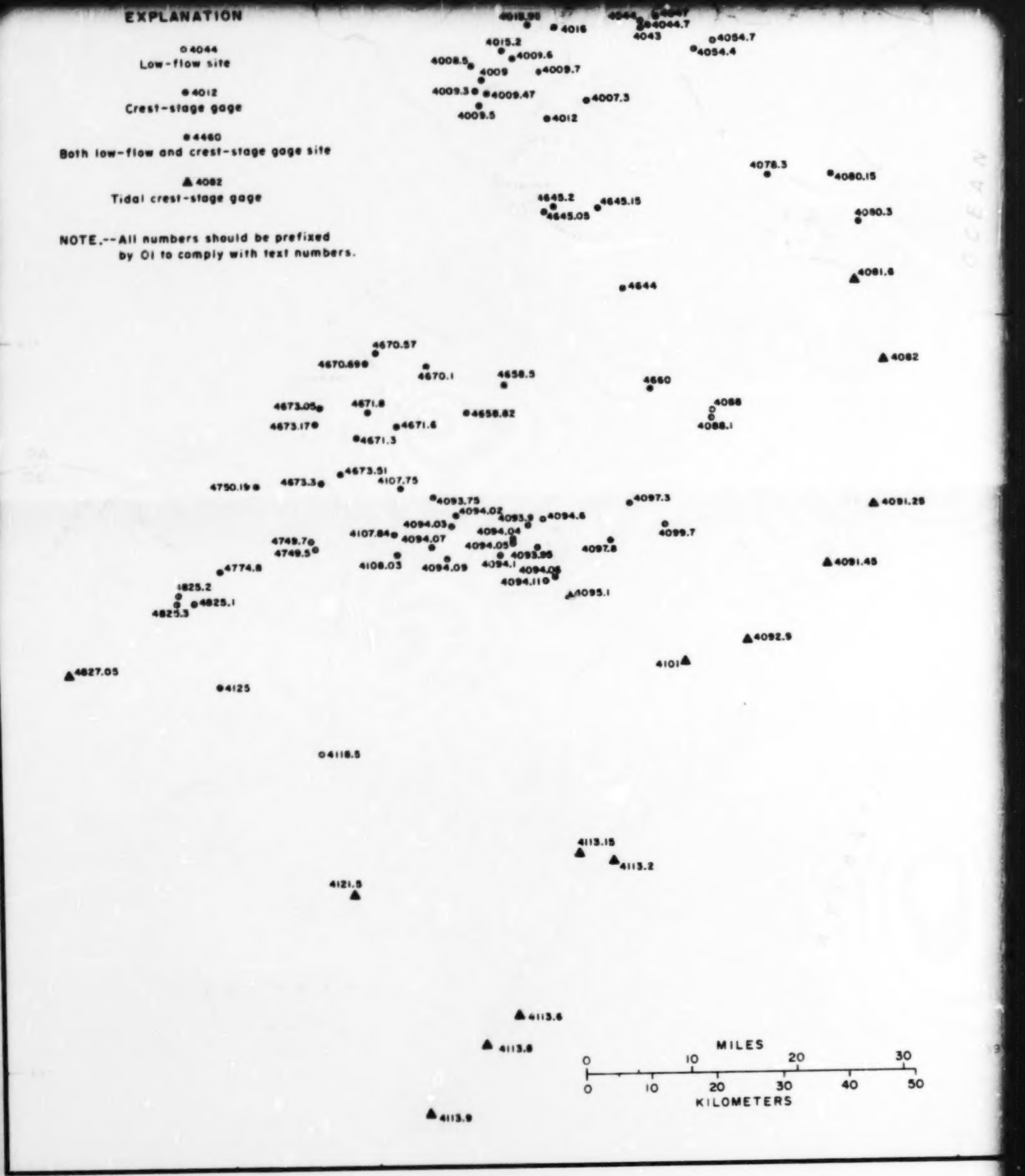
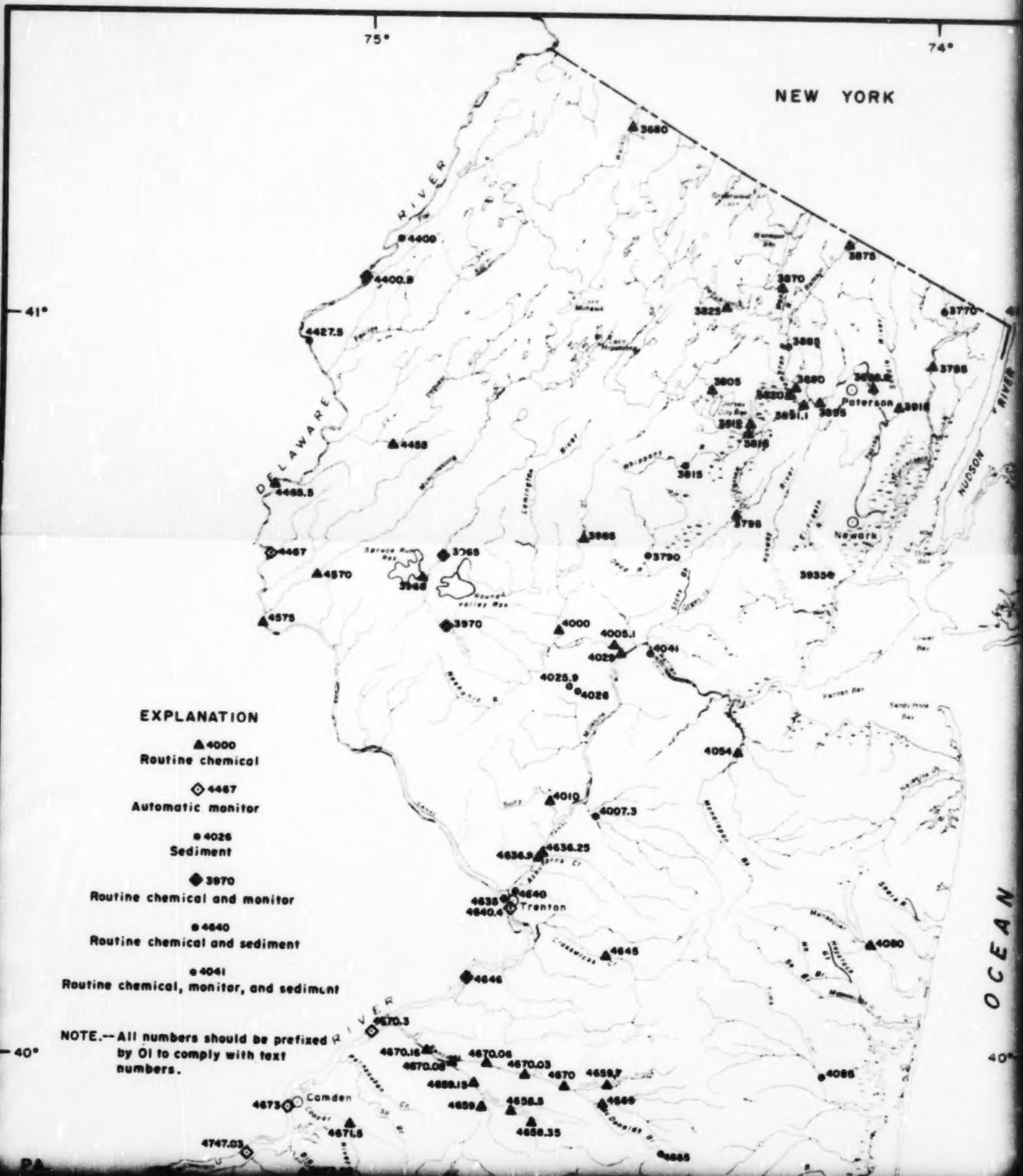

EXPLANATION
4044
Low-flow site
4012
Crest-stage gage
4460
Both low-flow and crest-stage gage site
4082
Tidal crest-stage gage
NOTE.--All numbers should be prefixed by 01 to comply with text numbers.
4018.95
4016
4044
4047
4044.7
4043
4054.7
4054.4
4015.2
4009.6
4008.5
4009
4009.7
4009.3
4009.47
4007.3
4009.5
4012
4078.3
4080.15
4645.2
4645.15
4645.05
4080.3
4081.6
4644
4670.57
4670.699
4670.1
4658.5
4660
4082
4088
4088.1
4673.05
4671.8
4658.82
4673.17
4671.6
4671.3
4673.51
4750.19
4673.3
4107.75
4093.75
4097.3
4091.25
4094.02
4093.9
4094.6
4094.03
4107.84
4094.04
4099.7
4749.7
4094.07
4094.05
4097.8
4749.5
4093.95
4091.45
4108.03
4094.09
4094.1
4094.08
4774.8
4094.110
4825.2
4095.1
4825.1
4825.3
4092.9
4101
4827.05
4125
4118.5
4113.15
4113.2
4121.5
4113.6
4113.8
4113.9
MILES
0
10
20
30
0
10
20
30
40
50
KILOMETERS
OCEAN

Figure 7.--Map showing location of partial-record stations

WATER RESOURCES DATA FOR NEW JERSEY, 1975


75°
74°
41°
40°
NEW YORK
DELAWARE RIVER
HUDSON RIVER
OCEAN
PA
Paterson
Newark
Trenton
Camden
EXPLANATION
▲4000
Routine chemical
◇4467
Automatic monitor
•4026
Sediment
◆3970
Routine chemical and monitor
•4640
Routine chemical and sediment
•4041
Routine chemical, monitor, and sediment
NOTE.--All numbers should be prefixed by 01 to comply with text numbers.
3680
3875
3870
3770
3825
3885
3785
3805
3890
3820
3895
3851.1
3815
3816
3795
3865
3790
3835
4400
4400.9
4427.5
4455
4465.5
4467
4570
4575
3965
3966
3970
4000
4005.1
4029
4041
4025.9
4026
4054
4010
4007.3
4636.9
4636.25
4640
4638
4640.4
4645
4646
4080
4670.3
4670.15
4670.06
4670.03
4670.08
4670
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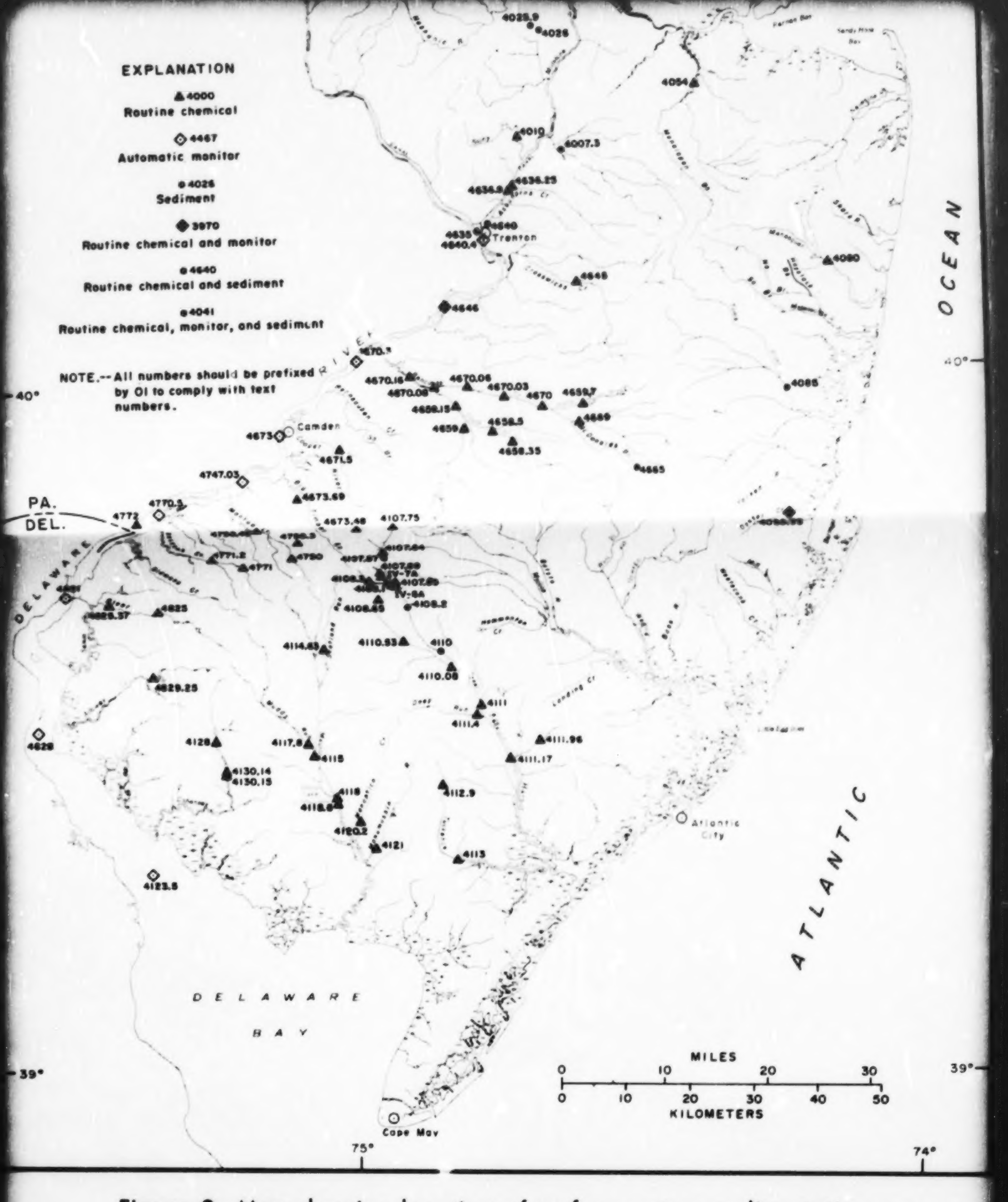
4658.5
4660
4673
4671.5
4658.35
4747.03
4665
4085



EXPLANATION
▲4000
Routine chemical
◇4467
Automatic monitor
●4026
Sediment
◆3970
Routine chemical and monitor
●4640
Routine chemical and sediment
●4041
Routine chemical, monitor, and sediment
NOTE.--All numbers should be prefixed by 01 to comply with text numbers.
4025.9
4026
4054
4010
4007.3
4636.23
Trenton
4635
4640
4640.4
4080
4645
4646
OCEAN
RIVER
4670.1
4670.16
4670.06
4670.08
4670.03
4670
4659.7
4659.15
4659
4658.5
4658.35
4660
4665
4085
40°
Camden
4673
4671.5
4747.03
4673.69
4770.3
4772
PA.
DEL.
DELAWARE
4673.48
4107.75
4780.2
4771.2
4771
4780
4107.97
4107.64
4107.99
IV-7A
4107.89
IV-8A
4108.45
4108.2
4861
4825
4826.37
4110.53
4110
4114.83
4110.08
4829.25
4111
4111.4
4111.96
4111.17
4629
4128
4117.8
4115
4130.14
4130.15
4118
4118.6
4112.9
4120.2
4121
4113
Atlantic City
4123.5
ATLANTIC
DELAWARE BAY
MILES
0
10
20
30
0
10
20
30
40
50
KILOMETERS
39°
Cape May
75°
74°

Figure 8.--Map showing location of surface-water quality stations